JOURNEY

THROUGH

SPAIN

IN THE YEARS 1786 AND 1787;

WITH PARTICULAR ATTENTION

TO THE

AGRICULTURE, MANUFACTURES, COMMERCE, POPULATION, TAXES, AND REVENUE

OF THAT COUNTRY;

AND

REMARKS

IN PASSING THROUGH

A PART OF FRANCE.

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VOYAGE

FROM

CADIZ TO MALAGA.

On Friday, 23d of March, at eight in the morning, I went on board a little brig, which came from Yarmouth, and was bound for Malaga; but as it was an hour too late for the tide when we got under way, we had the mortification to fee other vessels make good their passage, whilst we, after beating about the bay six hours, were reduced to the necessity of coming to an anchor. For my consolation, I had thus an opportunity of dining once more with my amiable friend count de Greppi, and of lodging again under the hospitable roof of Mr. Duff.

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Early

Early the next morning we fet fail with a pleafant breeze, and before night, entering the straits of Gibraltar, had the fatiffaction to view the proud rock, at the fight of which every British heart should triumph in the recollection, not fo much of the courage of its brave defender, as of his generous compassion for his besiegers in the hour of their diffress. As we had the advantage of the current, we flackened fail, that we might be certain of not passing Malaga before the morning. But, by the time that we had entered the bay, and began to fee the city at a distance, the wind died away, and for two hours we found ourfelves becalmed. However, as the day advanced, the sea breeze got up, and soon carried us to the place of our destination.

We have here two phenomena, univerfally noticed, but never fufficiently accounted for: the conftant influx into the Mediterranean, and the fea breeze. Both have occupied the attention of philosophers; and their folutions, however fatiffactory to themselves, have not, as I conceive, removed the difficulties involved in these subjects.

Doctor

Doctor Halley, in his experiments to afcertain the quantity evaporated from the Mediterranean Sea, placing a veffel of faltwater over burning coals, brought it to the temperament of the air in our hottest summer; and at the end of two hours, having found the evaporation and the proportion of the furfaces to each other, from these he formed his calculation. He then attempted to discover the quantity of water annually poured into the Mediterranean by all its rivers, making his calculation by the produce of the Thames; and finding this unequal to the evaporation, he concluded, that he had affigned a fufficient cause for the constant influx. How inaccurate the premifes! how hasty the conclusion! Not to mention his comparing the discharge from rapid streams, borne with impetuosity into the Mediterranean, and retaining their freshness at the distance of many leagues from shore, with the more humble produce of the Thames, creeping almost imperceptibly along, and lost as foon as it has reached the sea; not to mention the impropriety of this comparison, it may be sufficient to remark, that the whole quantity of water

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contained in his vessel was brought to the temperature of the air in our hottest summer. No wonder then, that he should make the evaporation from the furface of the Mediterranean amount to two hundred and eighty millions of tons per day. But that furface is feldom, and but for very transient moments, of the same degree of heat with the incumbent atmosphere, because every breeze must make a considerable variation in its temperature, by commixing the waters from a confiderable depth with those that are superficial. In a most interesting voyage among the Alps, by M. de Saussure, we find some experiments conducted by himself on the lake of Geneva, by which it appears, that on the 6th of August, 1774, the thermometer of Reaumur at the depth of three hundred and twelve feet, stood at eight degrees and an half, when near the furface it was fifteen degrees, and, in the air, twenty degrees.

Here we find five degrees of difference between the heat of the atmosphere and the surface of the water in calm weather; but how much greater would have been the variation, had the lake been ruffled by a storm, storm, more especially had the waters been troubled to the depth of six hundred and twenty seet, where, as it seems, the thermometer sunk down to sour degrees three-twentieths!

Hence it appears, that the calculations of Dr. Halley are ill grounded. That his conclusion is erroneous, will be evident, if we reflect, that supposing the evaporation to exceed the annual supply from rivers, the Mediterranean Sea would be constantly growing more briny than the ocean, till, in process of time, it would become one solid mass of salt.

This being the case, some other cause must be affigued for this interesting phenomenon. Supposing the fact to be well established, that the influx at the straits of Gibraltar does really exist, without any corresponding estlux by the same channel, there must be some invisible communication between the Mediterranean and the ocean; and this, considering the strong convulsion our globe has at some period suffered, is by no means improbable.

The other phenomenon, not sufficiently accounted for, is the sea breeze. It has

B 3 been

been supposed to arise merely from the accumulation of heat on the earth by day; as the land breeze is conceived to originate from the diminution of that heat by night. But we might enquire, whether the furface, of the earth, by night, becomes colder than the furface of the water? if not, should not the fea breeze continue all the night? but this would be contrary to fact. That accurate observer, Dampier, has given a good description of these alternate changes in the direction of the wind on the coast, and at a few leagues distance from the land. He fays, " The fea breeze begins about nine " in the morning, so gently, as if it were " afraid to approach the shore; and then, " as if unwilling to offend, it makes a halt, " and feems ready to retire. It increases " till noon, and dies away about five in the " evening."

From the result of some experiments confirmed by my own observation, I am induced to believe that the sea breeze originates in the ascent of vapour from the sea, and the land breeze from the condensation of that vapour.

That one cubic foot of water may be

converted into fixteen thousand feet of steam, in the medium pressure of our atmofphere, we learn from Mr. Watt; and although vapour formed by the fun is not fo rare as steam arising from the surface of boiling water, yet we know that the space it occupies, and the force of its expansion, are confiderable. To afcertain this matter, I took a twelve ounce phial, half filled with water, in which I placed a tube, two feet long, and nearly one-quarter of an inch diameter in its bore. This tube I cemented so perfectly, that no air could pass between it and the mouth of the phial. Thus prepared, I exposed my apparatus to the fun, when instantly a vapour began to form, of a force fufficient to overcome the pressure of the atmosphere, and by degrees to make the water rife up four-and-twenty inches in my tube. But whilst even the thinnest cloud was passing before the sun, the water funk in the tube with great rapidity, rifing again flowly after the gleam returned. At fun-fet, when the whole of the vapour was condensed, and a dew collected on the internal furface of the phial, the water funk down B 4

down again till it had found its level. At the closing of the day, the dew collected on that side of the phial which was turned from the sun; but in the night it was again taken up, and the whole before the morning was deposited on the other side nearest to the window, being always condensed on the side which was relatively cold.

How often do we observe the sun diffipating a thick fog, and converting it into that species of vapour, which, when the thermometer is above fifty-five degrees, is invisible. M. de Saussure remarked upon Col Ferret, a mountain of the Alps, bounding the Allée blanche, one thousand one hundred and ninety-five toiles, or about feven thousand feet above the level of the sea, that whenever the sun shone strongly upon the valley, it disfolved the clouds as foon as they entered it. But this never happened opposite the glaciers; for there, as if attracted by the ice, they descended rapidly, and feemed, as he observes, to spread themselves upon it. § 865. But in reality the rapid condensation caused this rapid motion

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motion of the vapour towards the cold ex-

panse.

From some of the highest rocks he often saw the vapours, after sun-set, gradually depressed, and concentrating themselves in the bottom of the vallies. § 1126.

Agreeable to these remarks mariners observe, that wind is generated by a single cloud.

During the time, therefore, that vapour is produced, the wind blows from the sea; but whilst the condensation lasts, it comes off the land.

We availed ourselves of a gentle sea breeze; and, traversing the bay, we came into the harbour,

MALAGA.

In failing up the Mediterranean, when first you open Malaga, you see it deeply embayed, and on the land side surrounded by high and rugged mountains, which seem to be destitute of soil, and, therefore, not susceptible of cultivation; but, as you approach, the prospect every way improves, the vineyards are distinctly seen on the declivities, hanging towards the sun, and all the lower lands appear to be exceedingly productive.

As foon as we had dropt our anchor, an officer appeared, to whom I communicated my defire of going immediately on shore, to deliver a letter to the marquis of Vallehermoso, captain-general of the province.

Having

Having looked at the direction, after due examination respecting health, he gave us Prattique, to the no small satisfaction of our master, who seared that we might have been obliged to wait for it two days, as often happens, arising either from the perverseness or neglect of the officer on duty.

Malaga is fituated in a valley of no great extent, on the fide of a deep ravin, which in fummer contains no water, but in winter affords a bed to a confiderable river. The houses are high; the streets are contracted, many of them not more than eight feet wide, others not fo wide; all badly paved, and dirty to a proverb. It is divided into fix parishes, and contains fortyone thousand five hundred and ninety-two fouls; of which by far the greatest proportion is of females; because, of those who arrive at the age of maturity, and go out to labour, here are found fix women to one They have twenty-five convents; man. fifteen for monks, and ten for nuns; with nine hospitals, and one beaterio.

Of the buildings, whether public or private, the only one, in the least worthy of attention, is the cathedral, an edifice begun A. D. 1528, and not yet finished. It is indeed two hundred years fince it was fo far brought to a conclusion as to be fitted for the performance of divine fervice; but notwithstanding new taxes are granted for its completion, and have been collected for near feventy years, it remains with one fingle tower out of fix contained in the original defign. The dimensions are three hundred and fixty feet by one hundred and eighty, with one hundred and thirty-five in height. It is a noble pile; but the part which most rivets the attention, is the choir, admirable for the perfection of its carved works, representing in very bold relief the twelve apostles and the most diftinguished of the faints.

This bishopric is worth a hundred and fifty thousand ducats, or £.16,479. 95. 10d. But then, one-third of this revenue is disposed of by the king. The whole chapter consists of the bishop, with eight dignitaries, twelve canons, twelve minor canons, and the same number of prebendaries. Of the former, the dean receives six hundred pounds a year; but the other dignitaries only four hundred and sifty pounds.

The

The convents, though numerous, are few of them remarkable, either for architecture, or for any monuments of art. Of the friars, the Franciscans seem to take the lead, and to be most the objects of veneration among the common people. They have four orders, but I am not acquainted with their distinctive characters. A gentleman, who is no friend to the monastic institutions, was so obliging as to give me the subsequent description, but this relates only to externals:

Barb fans poux, et poux fans barb: Barb et poux: ni poux ni barb.

Among these, the Capuchins appear to be the only useful members of society, giving themselves up to the service of the poor; yet even they might be dispensed with, and their place supplied with more advantage to the public, by the fathers of the oratory, or congregation of S. Philip Neri; who, although not bound by vows, are more laborious and more extensively useful, than all the regulars of the monastic tribes.

As one of my friends was retired, with other young people, to this congregation for a few days, to be engaged in reading, prayer, and meditation, previous to their receiving the eucharift at Eafter; I went to vifit him in his retreat, and was much pleafed with the attention paid by the fathers in preparing their minds for this following.

In the evening I returned to hear the penitential fermon and the miferere. When, as usual, the lights were extinguished, and the flagellation, accompanied by the miferere, was begun; it became evident, by the fervor of their devotion and the vehemence of their discipline, more than commonly protracted, that the penitents, either deeply impressed with a sense of guilt, were more than commonly folicitous to placate an offended deity; or that, mistaking his nature, they earnestly defired to please him by their voluntary fufferings. It is much to be lamented, that the fathers of the oratory, fo highly to be respected for their good intentions, should not hold up the idea of reformation to their penitents, rather than flatter and deceive them with the vain hope of thus making an atonement for their crimes.

These fathers use the discipline on Wednefdays and Fridays, about feven in the evening, because at that time, immediately after the vespers, they rehearse their mattins; but all the religious orders, who rife at midnight to this service, perform their flagellation in its proper feafon; and many of them do it with fuch violence, that in the morning, the places where they stood, are found sprinkled with their blood. The bishop of Malaga, although distinguished for his benevolence and piety, and, in the opinion of mankind, free from every stain, yet is faid to practife fecret discipline with more feverity than the most zealous of the monks.

This good bishop, not fatisfied with giving thus his body to the scourge, gives more than half his goods to feed the poor, who assemble every morning at his doors to receive each a little bit of money, and from thence disperse themselves among the convents, where they never fail to get some bread and broth.

Beside

Beside these general benefactors, many of the merchants are exceedingly liberal in their donations to the poor; and among them, no one is more distinguished than D. Joseph Martinis, a gentleman equally celebrated for the extent of his information, the hospitality of his table, and the bountiful affistance, which he never fails to give to objects of distress. The poor are at all times welcome to his doors, where money is daily distributed, and for them every day his caldron boils. His most intimate friend affured me, that, with his own hands, he gave them more than eight hundred pounds a year. About eleven in the morning they begin to fwarm about his habitation, young and old, the feeble and the robust, men, women, and children, clothed in rags, and half devoured by vermin; where, feated on the ground, they employ themselves in the most disgusting occupation, till the hour of distributing the meat and broth arrives; after which, they either lie down to fleep, or disperse themselves about the streets to beg, varying, as it may be readily conceived, ceived, their plan, according to the variation of the feafon.

With fuch encouragement for beggars, no wonder that they should abound in Malaga, where the lazy can have no inducement to employ themselves in labour, and where the profligate, when they shall have wasted their substance, may know for a certainty that they shall never be in want of bread. Hence it comes to pass, that in the city, few traces of industry are seen, whilst filth and nastiness, immorality and vice, wretchedness and poverty, the inevitable consequences of undistinguishing benevolence, prevail. How evident is it from hence, that he, who finds employment for the poor, is their greatest friend; whilst he. who indifcriminately feeds them, should be ranked among their enemies.

Multitudes of beggars, infesting every street, mark a bad police; and certainly sew cities have more cause than Malaga to complain of this. For some time I could not conceive the reason, why, wherever I had supped, I was constantly attended to my lodging by a servant with a light; but observing upon some occasion, that such at-

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tendance would be needless, because the stars shone bright, and the distance was inconfiderable; I was informed, that the fervant and the light were not merely for comfort, but for fafety, because robberies and murders were frequent in the night. Indeed when I was there, an officer, returning unattended to his lodging, was affaulted in the street by thieves, and, upon making refistance, was stabbed in the back by one, whilst another robbed him. In the last fixteen months they reckoned feventy murders; for which, not one criminal had been brought to justice; and in one year, as I am credibly informed, a hundred and five persons fell in the same manner. Similar to this had been the confequence of gross neglect and mistaken lenity at Cadiz, till count O'Reilley became its governor. Whenever fuch a man shall be named to the government of Malaga, the same Herculean labour will be undertaken here, and probably with the fame good effect.

Their form of municipal government is excellent, but the defect is in its mal-administration.

At the head of this department stands the

the governor, representing majesty, and himself, when absent, represented by the corregidor with his alcalde mayor, the former resembling the mayor of our corporations, the latter performing the office of recorder. Both these are in the nomination of the crown. The alcalde goes his rounds in the beginning of the night, attended by an escrivano.

Of the regidores, or aldermen, two in rotation preside monthly. These have the privilege of selling their places, or of naming a successor; but should they neglect, whilst living, to dispose of their office, it goes by succession to the heir, either son or brother, being bijos de la ciudad, or free citizens. Should they have purchased, they may easily contrive to reimburse them-selves.

The alcaldes de barrio, or petty constables, are twelve; of which six are named by the regidores, the other six are chosen by the people. They have staves, and walk the streets, two hours each, every night. They have the power to arrest till morning, and may command the assistance of the military.

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The alguazil mayor, chosen by the regidores from among themselves, is like our constable of the hundred, endued with more extensive authority than the alcaldes de barrio; having the power of arrest over a whole district, yet subject always to the alcalde mayor, and obliged to give him an account of every thing he has done.

The escrivanos, or public notaries and scriveners, are twenty-four, to examine witnesses, and make minutes. No deposition can be taken but by them, nor any judgment pronounced but on their report.

The *fyndicos* are two, chosen annually by the people, to watch both for them and for the king, that neither they may be oppressed, nor the revenue be defrauded, Of these, one is subjected to the approbation of the crown, whilst his associate is altogether independent of the court. This officer, called *personero del comun*, is by the patent of creation, dated 5th May, 1766, like a Roman tribune, armed with his veto in the assembly of the regidores, among whom he sits, and may communicate at all times with the king, either in person, when

it suits him to demand an audience, or by letter. Without his consent, the regideres cannot regulate the price of provisions, and, when regulated, he inspects the qua-

lity.

The present alcalde mayor, little respected for his personal appearance, less admired for the endowments of his mind, and not proof himself against corruption, seems to have neither inclination nor abilities to curb the rapacity of the escrivanes or notaries, who, taking bribes to the right and to the lest, pervert justice, by drawing up false reports; always prepared to skreen for money the vilest offenders. Hence the adage,

O bien ; O mal; tienta al escribano.

Murders and affaffinations, with every species of excess and violence, must, without the strenuous exertions of the magistrate and the strict execution of the laws, be frequent in a country, where, whenever the wind blows over land, all the passions are inslamed, and in some persons almost to frenzy. Yet here, justice, when most awakened, pursues offenders with a tardy

C 3 step,

step, flow in its approach, uncertain in its vengeance. Innumerable instances are cited of criminals, who have died forgotten in the prisons; and of some who, whilst under sentence of death, having married and produced a numerous offspring, have been brought forth to execution, when all recollection of their crimes had been long since obliterated. A friend of mine in Malaga informed me, that he saw a woman, after nine years confinement, hanged, for having poisoned two husbands, and one mother-in-law.

The usual pretext for this neglect, is the desire, by repeated examinations of the criminal at distant periods, and by the enquiries consequent on his confessions, to get a knowledge of his accomplices; but the misfortune is, that by this delay, the purposes of justice are deseated.

In fummer the inhabitants of these sultry regions, excluding as much as possible the sun, confine themselves to their habitations throughout the day; but when the overwhelming heat is succeeded by the refreshing coolness of the evening, they wander abroad, and when the light is gone,

all the young people bathe for hours in the fea. The fexes, however, do not bathe promiscuously, but separate, and at a convenient distance from each other. At such seasons, to prevent intrusion, the spot where the ladies are, is guarded by sentinels with their loaded muskets; and should a gentleman be so indiscreet as to swim round to them, it must be at the hazard of his life. Whenever, therefore, a young person is determined to intrude, he goes in disguise, as the semale attendant of some easy fair one, and in that character passes unobserved.

This practice of bathing every night, is not defigned so much for pleasure as for health, being meant to obviate every inconvenience experienced from the heat. Yet notwithstanding all precautions, the diseases of a relaxed fibre are most prevalent; for, not to mention those which arise from irritability of nerves as the consequence of debility, tertians and putrid severs rage with such violence, that more than three thousand died last year in the hospital of S. Juan de Dios, beside multitudes in the city and its environs.

I happened to be at Malaga in the holy week, and although the ceremonies are not equal to those of Barcelona, yet they are conducted with some degree of solemnity, and afford much amusement to the vulgar.

On Thursday morning the consecrated host was deposited in a mausoleum, erected for the purpose at a great expence; and of three keys, one was tied round the bishop's neck, who leaving some of the canons to keep watch and ward, which they did through the night, retired himself to dine with thirteen poor men, after which he washed their feet.

In the evening they fang the miferere, accompanied by foft mufic, and with fuch expression that scarcely any one, endued with sensibility, could refrain from tears.

On Friday, by feven in the morning, nearly ten thousand people were assembled in the great square to view processions; but just as a crucifix was seen entering at one corner of the square, whilst the beloved disciple, with the blessed Virgin, made their appearance at the other, a sudden shower compelled the multitude to disperse

for shelter. Thus unfortunately, the meeting of the son and mother was prevented;
otherwise these, and a variety of images,
were to have acted their several parts.
John was to have expressed his sorrow by
lifting up his hand, the blessed Virgin would
have fainted, and all the people would have
been dissolved in tears.

In the evening every one reforted to the cathedral, the facred lights were extinguished, and the miserere was again repeated, after the host had been removed from the sepulchre to the high altar. This, to a good catholic, should be a most desireable moment, because he may gain one thousand and fixty days indulgence, every time he repeats " praised be the holy hearts " of Christ and of the Virgin."

On Saturday morning, the refurrection was announced with all the usual tokens of exulting joy, and every one prepared to keep the feast. For this purpose more than a thousand lambs had been brought into the market the preceding night, and after the example of the Israelites, every family, which could afford to purchase one, was zealous to keep up the remembrance of

the christian passover. Light was re-kindled, and consecrated; and to represent the bright luminary of the church, a wax candle, twelve seet high, and twelve inches in diameter, pierced by five awls, was placed near the altar. Attendance on this ceremony procures for the penitent sourscore days indulgence, the value of which may be estimated, either by money or by corporal severities; because as Mr. Gibbon, who in this case is a competent witness, informs us, sour pounds for the rich, and nine shillings for the poor, or three thousand lashes, are equal to one year's penance.

In the evening I observed hundreds of lambs decorated with coloured ribbons, led by the boys about the streets. The market for these continued the three days of Easter, during which they enter free of every duty; whereas at other seasons, although calves and lambs entering the city are discharged from the millones, there is paid for them an alcavala of sour per cent. on the value.

The country round Malaga appears wild and broken. The mountains are high, rugged, rugged, pointed, and at their fummits deftitute of foil, yet cultivated wherever a vine can be fixed. The rock under the broken fragments of schist is limestone and marble. The fruit trees are the algarrobo, figs, almonds, vines, oranges, and lemons, with the aloes, producing here the prickly pear in such abundance, that the tithe of them is let for thirty thousand reals, or three hundred pounds a year.

The chief dependance of this country is on the vines. These are cultivated with much labour, and at a great expence; for beside the common pruning twice a year, and the collecting of the fruit, all the earth near each plant must be twice moved. Previous to the winter it is collected round the stem, that the roots may be kept dry and healthy during the wet season; and before the great heats of summer, it is formed into a dish to retain the water, that the vine may not droop for want of moisture.

When it is confidered, that these vineyards are always on the declivity of hills, inclined towards the scorching sun, it may be readily conceived, that the labour is severe; fevere; and that the people, who with unremitted application perform this talk, can
never deserve the character of drones. The
peasants of no country upon earth are more
patient of heat, of hunger, and of thirst, or
capable of greater exertions, than this very
people, who have been accused of indolence. For my part, from what I have
observed, and have been able to collect, I
am satisfied, that if the Spaniards of the
interior provinces are unemployed, it is to
be attributed neither to the climate, nor to
their constitutions; but either to the neglects of government, or to other accidental
causes already noticed and explained.

The expence attending the cultivation of a vineyard is so considerable, being equal to three-quarters of the produce, that none but the lands unsit for corn are converted to this use, and many which formerly yielded wine in great abundance are now neglected. According to the statement of Osorio, who wrote towards the close of the last century, three and \frac{1}{8} gallons of wine, the produce of twice that quantity of grapes, as it came from the press, cost one shilling and two-pence for the labour, be-

ing the very price at which it was sold in the villages, when the grape was plentiful. Notwithstanding the diminution in the quantity of land alotted to the vine, there are, in the district of Malaga, sourteen thousand vine-presses, chiefly employed in making the rich wines, which, if white, from the nature of the country, is called mountain; if red, from the colour, vino tinto, known to us by the name of tent.

For the purpose of making these wines fuller in the body, and fweeter than they would naturally be, the grapes are left to be very ripe; then, being cut, they are exposed to the fun to evaporate their moifture; after which, they are pressed and put into vessels, with a due proportion of inspiffated vinous fyrop. Some late experiments of M. John Murphy, prove that the mountains of Malaga can produce a light and pleasant white wine, equal in quality to the To obtain this, when he has best sherry. gathered his fruit, he combs off the grapes from the stem, before he commits them to the press. I have tasted the produce both in England, and at his table, and think it already superior to the sherry, commonly to be met with, and have no doubt that he will improve it every year, till he has brought it to be equal to the best.

This wine he sells for fixteen pounds the butt, of one hundred and thirty-five gallons, delivered on board the ship; whereas sherry sells for twenty-four, and is frequently spoiled with brandy.

Good mountain is fold from thirteen to fixteen pounds the butt, according to qua-

lity and age.

It is reckoned, that from eight hundred to a thousand vessels enter this port every year, of which about one-tenth are Spanish; and the exports in wine, fruit, oil, and fish, are computed at about three hundred and seventy-sive thousand pounds per annum; but there have been times when it has been considerably more. M. Martinis alone one year exported five thousand butts of wine, and other merchants in the same proportion to their usual sales. Their fish are anchovies, of which, in years of great abundance, they have sold ten thousand baricas of two quintals each.

In my little excursions round the city, I visited the Victoria, a convent built in the valley

valley between the old Moorish fortress, and the hill, on which Ferdinand erected his battery. My guide, a good old monk, endeavoured to amuse me with a legendary tale respecting this spot, and the reason of its having been thus honoured; but my attention was otherwise engaged, for I was taking notice of some people busily employed in pulling up oats from a fine crop of wheat. From their mode of winnowing their grain, after the mares have trodden it with their feet, their feed corn must be very foul; whereas, with the simple machine I have referred to, the drum and principle of which was first described by Papin, they might fave the expence of pulling up the oats, and keep their land much cleaner than at present.

How wonderful is it, that this beautiful machine is not better known, and that it should not yet have been universally adopted. Dr. Papin invented it in 1689, merely for the purposes of raising water, and of supplying deep mines with air; but, in Holland, it was adapted to the use of husbandmen, for winnowing their corn. This great philosopher published his discovery to the world

world in a valuable work called Recueil de diverses Pieces touchant quelques nouvelles Machines, printed at Cassel, in 1695. He called this machine Rotatilis Suctor et Pressor.

I have been the more particular on this fubject, because a tallow-chandler in London has lately assumed the invention to himself and taken out a patent, although, as it thus appears, neither the machine itself, nor the purposes to which he would apply it have any claim to payelts.

it, have any claim to novelty.

Near' the convent of Victoria I took notice of some blue marly clay, of which are made the earthen jugs, called bucaros and alcarrazas, used in this part of Spain for cooling water. It is remarkable, that when the fcorching terral wind prevails, liquids exposed to it in these jugs, become as cold as if buried in the fnow; but, if subjected to the influence of the east wind, they foon grow warm. To explain this, we must obferve that the bucaros being porous, fuffer the water to transude, and to cover, as with dew, the external furface of the veffel; in consequence of which, being exposed to the dry land wind, the evaporation is carried ried on with rapidity, and, in proportion to the evaporation is the cold thereby produced; whilst the east wind, sweeping along the surface of the sea, becomes saturated with moisture, and therefore not only is itself incapable of carrying on the process of evaporation, and of increasing cold, but, operating as warm vapour, it has an opposite effect.

The effect of evaporation no where appears more striking than in the East Indies, where, for the purpose of procuring ice, they make large pits in wide extended plains, and nearly filling them with canes, they place on these, very shallow pans, unglazed and porous, and filled with boiling water. Thus exposed during the night to the influence of the land breeze, a pellicle of ice is formed before the morning on the surface of the water, always thicker if the wind has been warmer than usual.

When I was returned from the Victoria, the young count de Villalcazar, to whom, as well as to his father, I was under the highest obligations for their polite attentions, invited me to take a ride with him to see his country-house called the Retiro.

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It is indeed a beautiful retreat, fituated on a declivity at the feet of the mountains, and not far distant from the sea; both which, with Malaga, contribute to enrich its prospects. It is a very ancient habitation, in the form of a castle; but as it was never strong, it must have been defigned only to prevent furprise from the nocturnal visits of the Moorish pirates. The numerous fountains in the garden are pretty, and well supplied with water. The fruit trees are luxuriant. Here oranges, lemons, limes, citrons, olives, vines, apricots, figs, and almonds, mix together in beautiful confusion. Could I have prolonged my stay at Malaga, I should frequently have visited this enchanting spot.

This little excursion prepared me for one

to a greater distance from the city.

Whilst I was attending the solemnities of Easter in the cathedral, I became acquainted with a person, who happened to stand near to me, and who, after answering my inquiries, and explaining to me such ceremonies, as most excited my attention, had the goodness to invite me to his house. Struck with the frankness of his manner,

I accepted the invitation and went home with him, where I had the happiness of finding, in the person of his father, one of the most sensible and most intelligent of those, who honoured me with their friendship and esteem.

After I became more intimate in the family, this gentleman, called don Felix Solesio, pressed me to spend a sew days with him at his country-seat. On the eve of my departure my time was precious; yet, such was the cordiality of his invitation, that I

determined to comply with it.

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On Thursday, 12th April, we left the city, and, travelling westward, in a few hours we arrived at S. Carlos, near to Aroyo de la Miet, in the vicinity of which the snow continued still unmelted on the mountains. Here don Felix has just finished a spacious mansion, with an extensive garden; the latter well planted with every thing the soil and climate can admit of; the former, though vast, yet inelegant, and destitute of taste. Utility being every where consulted, without the least attention to appearance, the poultry-yard and pig-sties are in the front of the house; and in the whole pile

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there is not one good room, nor the least regard to symmetry, but all the apartments are scattered and void of order, as if built without a plan. At his table appears the greatest affluence, and nothing but plate is to be seen; yet the same want of symmetry prevails, and the same deficiency of refinement, as if he had previously determined to have nothing modern. His eldest son, my first acquaintance, seems here to be unemployed; whilst the second, an active youth, overlooks the labourers, and occasionally works among them.

The estate they cultivate, is more than two leagues in length, and one in breadth, by the sea side, and hanging to the sun. Much of the land is good, the rest only sit for sheep; and the whole quantity, as near as I could calculate, is about twelve thousand acres; for the see-simple of which he gave twenty thousand hard dellars, or four thousand pounds sterling.

It is but two years fince he made the purchase, and in that short space of time he has planted two hundred thousand vines, five thousand olives, one hundred and twenty thousand mulberries, five hundred and eighty

eighty figs, three hundred pomegranates, feven hundred lemons, and as many orange trees, beside a great number of sugar canes. He has added to his works a tan-yard, and a paper-mill, each upon an extensive scale.

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To conduct all these operations, he has engaged one hundred and twelve men, the labourers at five reals (one shilling) a day, the masons at nine. Last year he constantly employed between seven and eight hundred.

His present stock upon his farm consists of fifty-six oxen, twelve hundred sheep, four hundred goats, and one hundred and siftyeight pigs; but all these will be increased

The shepherds sleep near their flocks; and every night a watchman, well armed, rides round the whole estate, to see that all is safe. Were it not for this precaution, the thieves by profession, and the smugglers, when distressed, would commit frequent depredations.

In the midst of the estate, a vast quarry has been opened, and will be enlarged for the united purposes of procuring stone, and of giving vent to springs, which are here so copious, that from the mouth of the

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quarry

quarry there issues a considerable river, discharging itself with great rapidity, and watering as it flows more than a thousand acres of his richest land.

The highest rocks upon these premises consist of white marble, the lower ones of limestone, and nearer to the level of the sea, there is tuf; which is a kind of petrefaction, by incrustation of calcareous matter, inclosing the branches and leaves of trees, with other vegetable and animal productions, not marine, but similar to those of the adjacent lands. Descending lower still, near to the sea, we find the surface covered with fragments of schist, and of white quartz.

In this part of his estate, adjoining to the sea, and near to the Aroyo de la Miel, he pointed out to me two Roman baths, joined by a Mosaic pavement, and as it appears, formerly covered by the same roof; the one twenty feet long, the other sourteen, each twelve feet wide; the lesser surplied with a stove, and both readily supplied with water, either from the sea, or from the rivulet. The steps to each are twelve feet long, one soot wide, and nine

inches deep. Nearer to the beach appear some vaults, with other fragments of Mo-

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This enterprising man, a Genoese by birth, is a card-maker, and has an advantageous contract with the government; but happily, being a man of spirit, he employs all his gains in these improvements: and, should he continue to meet with protection from the court; in him it will be seen, that the man, although a stranger, who gives activity to wealth, and calls forth the resources of a country, far from being the object of jealousy and envy, deserves every possible encouragement, and should, as long as it suits him to reside in it, be enrolled among the citizens, and partake of all their privileges.

In his card manufactory, which, in honour of the marquis of Sonora, was established at the place of his nativity, are employed two hundred people, to fulfil his engagements with the minister, because he is bound to supply a given quantity for the service of the colonies. These he delivers at two reals the pack; and government sells them in America for twenty, that is, for a dollar, or four

D 4 shillings

shillings sterling; although better might be had for less than two pence halfpenny, or one real. In consequence of this extortion, the demand falls so short, that there remain undisposed of four thousand boxes, each containing four thousand packs; yet the contractor continues to deliver the same quantity as usual, receiving monthly on account, through Martinis of Malaga, one hundred and sifteen thousand reals, or eleven hundred and sifty pounds.

There is at Malaga a benevolent institution, well suited to the condition of a country whose husbandmen are destitute of capitals. It is called *Monte pio*, and is in fact a provincial bank, established for the purpose of lending money, without interest, to farmers, to employ it in the cultivation of their lands. These sunds arise from vacant benefices, called *Espolios* y *Vacantes*.

The antiquities of this city, with its adjacent country, must to those who have a taste, for such pursuits, be highly interesting. It was built by the Phænicians, and passed successively under the dominion of the Carthaginians, Romans, Goths, and Moors. The first sovereign who swayed

the sceptre there, making it the seat of empire, was Haly Abenhamith. When this monarch had established his power over the kingdoms of Granada and of Murcia, he marched at the head of his victorious troops to Cordova, where, having slain with his own hand the usurper Zuleman, he took possession of the vacant throne, and left the united empire to his posterity.

It was not till the year 1487, that Ferdinand and Isabella, after an obstinate resistance, recovered Malaga from the dominion of the Moors. At that period it must have been a place of considerable strength, and two strong towers, the upper one called Gebalfaro, the other Alcaçava, with their communicating walls, must have been the chief dependance of the besieged. But its antiquities I leave to men better qualified than myself to treat of.

Before I quitted Malaga, I enquired into the prices of provisions. The pound there is of two-and-thirty ounces; but, reduced to fixteen ounces, the prices were as follow:

Beef, twelve quartos, or fomething under three pence halfpenny.

Mutton,

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Mutton, fourteen ditto, or nearly four pence.

Bread, five ditto, or not quite three half-

pence.

Anchovies, three ditto. These have been sold for one quarto the double pound, but since there has been a demand for them in Naples, the price has risen.

JOURNEY

FROM

MALAGA TO GRANADA.

ON Sunday evening, April 15th, I prepared, with regret, to turn my back upon a city, with which, upon my first entrance, I was so disgusted, that I determined to leave it the succeeding day. Yet after a three weeks residence, delighted with the manners of the inhabitants, in leaving it I lamented the shortness of my stay. Having then bid adieu to all my friends, and paid the last visit, where it was more especially due, to the marquis of Vallehermoso; recommended by his excellency to the care and attention of my guide, I set forwards on my journey.

The

The way, for the space of about three leagues, passes along a bottom, shut in by mountains to the left, but, on the righthand open to the fea. The whole of this valley is covered with luxuriant crops of corn, as are the adjacent hills with vines. As we advance towards Velez Malaga, the country appears more broken and occupied by innumerable pointed hills, all rich and cultivated to their very fummits with the vine. The rock in general is fchift, with fome limestone, and one hill of gypsum. With fuch a rich variety of views, it would not be easy to find a more delightful ride than this. At the distance of five leagues we arrived at Velez.

This city occupies a declivity, and is exposed to the influence of the mid-day sun. It is commanded by a castle placed on the summit of the hill, which, as no longer needful for its defence, is suffered to decay. Here are two parish churches, six convents, and, according to the government returns, eight thousand sive hundred and twentynine souls; but they are supposed to be nearer to twelve thousand.

Much trade is carried on from hence, chiefly

chiefly for lemons, raisins, figs, almonds, oil, and olives, with some wine.

The government is in a corregidor, and thirteen regidores, affifted by the alcalde, alguazil, and thirteen escrivanos.

As to the accommodations for a traveller, I can fay little, because I was happy in being received under the hospitable roof of Mrs. Blake, the sister of my banker, Mr. Joyes. Yet from a view of the posada, I thought myself doubly fortunate in having secured such good quarters, and such agreeable society.

On Monday, 16th April, at seven in the morning, we proceeded on our journey, passing along the alameda, so called from alamo, a poplar, this being the tree, with which most frequently the public walks are planted. Here, in a cool and refreshing shade, where through the whole year the nightingale sings, and lemon trees diffuse their fragrance, the inhabitants of Velez assemble every evening.

It was with reluctance that I quitted this cultivated spot, where all nature seemed to wear a smile. Here the peasants at every step call for some blessing upon all who pass.

Their

Their manner is soft, their falutation is benevolent, yet peculiar; for they do not, as in other parts of Spain, address the traveller with vayausted con Dios, that is, "God be with you," but vayausted con la Virgen, "May you be under the protection of the virgin."

When we had left this pleafant, this fertile valley, and began to climb the hills, the abundance of goats shewed clearly the nature of the country, that it was rough, arid, and uncultivated. Such we found it, rugged in the extreme; and if our mules had not been nimble and alert, dauntless and persevering, if they had not resembled in some measure the goats, in clambering among the rocks, we should never have been able to proceed.

The scene itself was sufficiently terrific, but it was rendered more so by the frequent view of monumental crosses. Of these the most remarkable was one raised on the spot, where the marquis S. Antonio and his servant met their sate. The situation was convenient for the purpose, with a steep ascent, and roads almost impassable to engage his whole attention; whilst scattered trees

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ferved to skreen the villains, and enabled them unobserved to fire, at the same instant, on the master and the man.

We had, however, little reason to be afraid, because we had infensibly joined with others in the valley to form a powerful caravan for the passage of these mountains, the usual refuge of smugglers and of We had a troop of fifty, either horses, mules, or asses; and could have mustered twenty men well armed. Of our company two were equipped more completely than any of the rest; each of these had two guns flung by his fide, one very long, the other short; two pair of horse pistols, and two lesser pistols in a girdle, befide a dagger for close quarters, when they should have exhausted their ammuni-These were two officers of the revenue, employed to watch the motions of the fmugglers.

One of them, a young man, I found communicative and well informed. He told me, that fince the tobacco has been raised from thirty to forty reals, that is, to eight shillings a pound, the smugglers have increased to such a degree, that they have

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now twenty where they before had one, although the officers wholly employed in collecting the duty on tobacco, are more than eighteen thousand, beside the soldiery, who are often called in to their affiftance. He complained most feelingly of the hardships endured by the officers of the revenue, and of the absolute impossibility of living on their pay. This appeared, when he informed me, that for the maintenance of himself and horse, government allowed no more than eleven reals, or two shillings and two pence a day, with an obligation to find his own horse; and, should any misfortune happen, to replace it at his own expence. This fpeaks for itself, and evidently proves, that the most faithful of them all, must have some other dependance beside his pay.

When we had travelled four leagues in about fix hours, we arrived at the puerta, or fummit of these mountains, which were then covered with snow, and after another league, we began descending towards Albama; where, hungry and satigued, we arrived at four in the evening.

On the heights we had feen only the cork

cork tree and the ilex; but, in the valley, if with fuch a rich variety of hills it may be called a valley, we found luxuriant crops of corn.

Albama is remarkable for fituation, being almost surrounded by a precipice, from which you look down upon a river, at least two hundred feet below you. In this it is beautiful to see and hear numerous cascades, assuming various forms, all foaming among the rocks; and when they have spent their sury, gliding almost imperceptibly along in one continued stream. Thus situated, the city is accessible only from the west, where a castle, formerly reputed strong, but now going to decay, commands the entrance.

These rocks are worthy of our observation. The upper stratum is pudding stone. Under this comes silicious grit or sand stone, including broken shells in great abundance; and near the water's edge, at the depth of two hundred seet, there appears a stratum of shingle or rounded gravel. Near to the river are springs, productive of much salt.

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Whilft I was confidering this fingular fituation, and contemplating fome fragments
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of the rock replete with shells, an old monk joined me, and, upon looking at my fmall collection, affured me, as a recent discovery, that what I fo much admired was not the production of the sea, but a mere lusus naturæ. I thanked him for his politeness, and turned my inquiries towards objects, on which he could give me better information. From him I learnt, that the city contained fifteen hundred families, and had three convents, but no kind of manufacture: that mutton fold for two reals, or nearly five pence'a pound of fixteen ounces; bread for five farthings; and that as for beef, they seldom if ever tasted it; that the government was in twenty-four regidores, and that the number of escrivanos was fortunately confined to four for the service of the city and of three dependant villages.

As I was walking through some corn fields, I observed the peasants weeding their wheat crops. This operation they performed with very narrow hoes, and a remarkable quick motion. I admired their dexterity, and think their method preferable to our own, as being much more expeditious than that of our English farmers, who,

after

after their spring harrowing, make use of paddles. Were they to employ the same implement among their turnips, they would make no dispatch; and should they exchange it for the hoe among their wheat, they would soon learn to handle it with ease, with expedition, and with safety to their crop.

When I returned to the posada, I found a good supper, civil treatment, and a comfortable bed; that is, comfortable, when compared with what I had expected; and in the morning I was equally surprised to find their charges moderate.

Whilst our caravan was affembling and preparing to depart, a venerable monk appeared, with a little image richly dreffed, to beg our charitable donations for the Queen of Heaven; when instantly every one was eager to express the warmth of his devotion, by kiffing her feet, and by giving This work of money to her treasurer. piety accomplished, we began to mount our mules; but we were again delayed for a few minutes, to contemplate an object, which excited horror—the corple of a poor traveller, who, the preceding night, had been E 2

been robbed and murdered in the mountains, over which we were about to pass. As we advanced upon the mountains, we took notice of many monumental crosses, almost the only objects to be seen upon these unprofitable heights. The intermediate vallies are rich, and many of them well cultivated.

On these serras the smugglers traverse the country, travelling well armed, and in companies of two or three hundred men, with a little sield-piece loaded with slugs, and fixed on the saddle of the leading horse. Thus prepared, they have been known to pass unmolested in the presence of the military, when in point of numbers they were by no means equal to a contest.

In this elevated region wolves abound, for which reason shepherds with large dogs keep watch over their sheep by night, and seldom venture to fix their tents at any considerable distance from the fold.

The rock is mostly gypseous, including strata of cristallised selenite.

How striking is the contrast, when, after having traversed these almost barren mountains, the rich and extensive valley of Granada nada opens on your view. Here, without the affistance of the Noria, the land is plentifully watered, and loaded with luxuriant crops, such as wheat, maize, barley, beans, pease, hemp, and flax, with vines, mulberries, and olives in abundance.

The construction of their plough is remarkable for its simplicity. The handle, sheet, and share, are of one piece. This, with a beam mortised into it and strengthened by a retch, with two pins to form the surrow, is the whole implement. Both the handle and the beam are lengthened out by pieces when such assistance is required.

From a comparison of all the ploughs to be found in the interior provinces of Spain, I am inclined to think, that the first idea of this now complicated implement originated in the use of a crooked stick, pushed forwards by a man, to form a surrow in loose soil. When afterwards he called for the help of oxen, it became necessary to contrive a beam, in order to regulate the line of draft, according to the stiffness or looseness of the soil, and the depth to which he wished to move the earth. For this purpose, it was needful that the beam

should be of sufficient length to reach the yoke, that there he might have his point of support to be elevated or depressed, as occasion might require. In process of time he found it convenient to have two pins, to be placed in such a direction on the share as to remove the earth to the right and to the lest, and thus to form a wider surrow than the share alone could trace.

Here then we have the plough, commonly used for tillage in the kingdom of Granada. As for the fin to the share, the coulter, the fore-sheet, and hind-sheet, the mould-board, the ground-wrist, the drock, the bridle or cat-head, with the foot and wheel or wheels, they are evidently modern, and not yet introduced in this sequestered valley. As for harrows I saw none.

Oxen appear to be the chief dependance of the farmer, both for tillage and for draft. They have no barns either for housing or thrashing out their grain, because when they have reaped their corn, they immediately tread it on areas in the open fields with cattle, and having freed it from chaff by the affishance of the wind, they lodge the corn thus cleansed in granaries.

For an excellent mule to carry me feventeen leagues from Malaga to Granada, I paid eighty reals, or fixteen shillings, wanting a small fraction.

GRANADA.

GRANADA occupies the banks of two little rivers, the Xenil and the Daro, at the extremity of a vale, the circumference of which is about five and twenty or thirty miles. The valley itself is bounded by high hills, and beyond these to the south is the serra nevada, a chain of mountains, so called because they are covered with an eternal snow. From this circumstance, the south wind is cooled in its passage, and comes refreshing to Granada.

According to the government returns, the city contains fifty-two thousand three hundred and twenty-five souls; but upon good authority, I may venture to say eighty thousand. It is divided into twenty-three parishes, with forty convents, three beateries, seventeen bermitas or chapels, nine hospitals, and eight colleges.

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Immediately on my arrival, I presented my letters to the archbishop, who gave me a polite reception; and, during my stay, was so obliging as to make me dine constantly with him, excepting when I was invited by D. Juan Marino de la Barrera, president of the court of chancery.

This metropolitan has an income of two millions and a half of reals, or twenty-five thousand pounds a year, with which he lives in some degree of splendor, maintains great hospitality, and distributes largely to objects of distress.

He is well lodged, has good equipages, and is served, like other prelates, chiefly by ecclesiastics, being constantly attended by his confessor, chaplains, secretaries, and pages. The latter are commonly either children of the nobility recommended to his protection, or they claim his favour as being nearly related to the ministers of state. In this capacity he has had the nephews of count Florida Blanca, and of the marquis of Sonora.

These pages, when he goes out, attend him to his carriage. When he is at home, they commonly wait in his antichamber, to receive receive and to communicate his orders, or at table stand behind his chair. Yet they have time allotted them for study, that when their service is accomplished, they may be prepared for the altar, and qualified to occupy the highest stations in the church.

The confessor, chaplains, and secretaries dine with the archbishop. He is served on plate, has adopted the French cookery, and does well the honours of his table.

His bounty to the poor is fuch, that we can scarcely conceive his income to equal his expenditure. Beside private pensions to families, and occasional relief in seasons of distress, he provides nurses in the country for 440 orphans and deferted children; he fends poor patients to the hot baths at the distance of eight leagues from Granada, where he actually maintains fourfcore; and he daily distributes bread to all the poor, who affemble at his doors. Once, as he did me the honour to inform me, he had himself the curiosity to count the number of these miserable creatures, and found the men two thousand, the women on that day three thousand and twenty-four; but at another

time the women were four thousand. In this bounty he is imitated by forty convents, at which are distributed bread and broth, without discrimination, to all who present themselves. The Carthusians alone give

annually fixty thousand reals.

These beggars are certainly objects of distress; but the question is, are they proper objects of compassion, and should they be fure to meet with indifcriminate relief? Without it they must perish. With it they propagate the race. Without it they would have no existence. With it they increase and multiply the objects of distress. Surely then charity ceases to deserve that name, when it extends the bounds of human misery. Were it possible to banish poverty and wretchedness by any other means, than by industry and unremitted application, benevolence might fafely be permitted to stretch forth the hand, and without distinction to clothe the naked, feed the hungry, give drink to the thirsty, and furnish habitations for the desolate. But the misfortune is, that undistinguishing benevolence offers a premium to indolence, prodigality, and vice. These principles can never be too deeply impressed upon the mind. Yet they are so little understood, that, not merely in Spain, but in more enlightened countries, they are overlooked or violated, and no where more so than with us.

In the conduct of our archbishop, who is distinguished thus by the goodness of his heart, and no less admired for his understanding, I was struck with one instance of mistaken benevolence, not however uncommon amongst men, as arising from our being liable to act under the influence of general principles, without adverting to the reasons upon which those principles were built. Pleased and perfectly satisfied with his principal cook, who is likewise his confectioner, he was determined to part with this man, rather than advance his wages to fomething more than five reals, or a shilling a day; and this upon a principle of economy, that he might have the more to give in charity. Yet this faithful fervant had a wife and five small children.

One article of his expenditure deserves the highest commendation. It is for free schools established in every part of the diocese. cese, and to these he pays particular attention at his annual visitations.

In one of my visits to the palace, I found him absent, but he had left word for me to follow him. I did so. It was to a jail, where I saw him waiting on the prisoners, and with his own hands serving them, whilst they were seated at a table plentifully furnished. This example of charity he exhibits annually in each of the prisons.

I have observed already, that in compliance with a general invitation, I commonly partook of his hospitality at noon. Besides this visit, sew evenings passed without my being present at his tertulla, when his friends assembled round him for conversation. Here some of the more ancient amused themselves at cards.

At one of these evening assemblies, I met with a young nobleman, an officer, who had the good fortune to be escorted, in a journey of six days over the mountains, by a party of smugglers, and to find a protector in the very person who had murdered the marquis San Antonio. This man, the captain of a band, was not a robber by profession, fession, nor did he allow of violence, except in cases of necessity; never permitting his comrades to plunder travellers, unless distressed either for arms, for horses, or for money, after they themselves had been plundered by some officer of the revenue; nor did he suffer them to murder any one, but out of resentment, or for self-defence.

At parting, the young officer would have given money to *Pedilla*, for that was the leader's name, but the generous chief refused it, saying, "When we had the mismortune to kill the marquis San Antonio, it was under a mistake. If you can procure our pardon, we will quit a profession, of which we have been long
fince weary."

This gentleman affured me, that thieves often rob under the disguise of smugglers, in order to prevent a search, and thereby bring unmerited odium on the illicit trader.

Soon after my arrival, I visited the albambra, or ancient palace of the Moorish sovereigns; and as long as I continued in Granada, I seldom passed a day without returning to contemplate an edifice, so perfectly fectly different in its stile of architecture from every thing I had seen before.

You enter first into an oblong court of a hundred and fifty feet by ninety, with a bason of water in the midst, of one hundred feet in length, encompassed by a flowerborder. At each end is a colonade. From hence you pass into the court of the lions, fo called because the fountain in the middle is supported by thirteen lions. adorned with a colonade of one hundred and forty marble pillars. Of this I made a drawing, but had I previously seen the beautiful representation of it by Mr. Swinburn, I should have saved myself that trouble: yet as we have given different points of view, my labour, I trust, will not be loft. The royal bedchamber has two alcoves adorned with columns, and a fountain between them in the middle of the room. Adjoining to this are two hot baths. The great hall is about forty feet square, and fixty in height, with eight windows and two doors, all in deep recesses. Between this and the oblong court, is a gallery of ninety feet by fixteen. All these lower apartments have

have fountains, and are paved either with tiles or marble in checkers. The idea of the cielings is evidently taken from *stalactites*, or drop stones found in the roofs of natural caverns. The ornaments of the friezes are arabesque, and perfectly accord with the Arabic inscriptions, which are here suited to the purpose, for which each apartment was designed. Thus, for instance, over the entrance to the hall of judgment, is the following sentence:

Enter, fear not, seek justice, and justice

thou shalt find.

A handsome stair-case leads you to a suit of apartments intended for the winter.

This elegant pile was finished, A. D.

1336.

The albambra has a jurisdiction peculiar to itself, with an alcalde, alguazil, escrivano, prison, gibbet, and a cuchillo for the purpose

of decapitation.

Adjoining to this residence of the Moorish sovereigns, and communicating with it, is the palace of Charles V. built by Alonzo Berrugete in a superior stile. It has two principal fronts, each of two hundred and twenty seet, by about sixty in height; and the orders are Doric and Ionic, with

with a rustic basement. The chief entrance is from the west under a portal, which has three gates, a large one fupported by two smaller, with intermediate columns and pilastres, and battle pieces in bass relief. Passing through a spacious hall, you enter a circus of one hundred and twenty-fix feet diameter, and of a fingular construction; for it is a cupola, with a periftyle of two and thirty Doric pillars appearing to support it, but in reality placed there for beauty, because being a cupola it needs no fuch affistance. Above this you have a gallery of about twenty feet in depth, with two and thirty Ionic pillars to support the roof; this forms the communication with the principal apartments.

Near to the alhambra is the mansion of the governor, with some good rooms, but little worthy of attention. And not far from this, on the declivity of the hill, looking to the west, and commanding a prospect of the city, is the ancient castle, with its hanging gardens, surnished with numerous fountains, and enjoying a delightful shade.

To the east of the alhambra, on the opposite declivity, is the old palace of Xenalarife. larife, which, with its gardens and fountains, may amuse an idle hour, if seen before its more beauteous rival has captivated the whole attention. It is the property of the Conde de Campotejar, a descendant of the Moorish kings.

The ascent towards the alhambra is through a shady and well-watered grove of elms, abounding with nightingales, whose melodious warbling is not confined to the midnight hour: here, incessant, it is equally the delight of noon.

Whenever the heat was too intense to admit of wandering abroad, I took the opportunity to visit churches, and to amuse myself with pictures.

The cathedral, venerable both for antiquity and magnitude, is divided into five ailes, and adorned with Ionic columns. It is four hundred and twenty-five feet long, by two hundred and forty-nine wide; and the great dome is one hundred and fixty feet high, by eighty in diameter. In this church are some good modern chapels; and among these the most distinguished is that of nuestra Señora del Pilar, of Zaragoza, sitted up at the expence of the archbishop, a native of that city, to be at once the faithful monument of his

Vol. III. F libera-

of his person and his image. The marble is rich, the sculpture excellent; both are from Italy. To secure the attention of succeeding generations, the materials, and the work-manship, are sufficient of themselves; but to call forth their devotion, the worthy prelate has obtained from Rome peculiar indulgences for those, who shall pray before this altar.

Beside this, a chapel behind the great altar, now fitting up, will be in point of elegant simplicity, a model for all succeeding ones.

Among the best paintings in the cathedral may be reckoned those of Don Pedro de Athanasia, a native of Granada. him we admire S. Bernard, a crucifix, the flagellation, the portraits of Ferdinand and of Isabella, with S. Ramon and the bleffed Virgin; but above all the famous picture of S. Pedro de Narasco, whose history, if authenticated, would deferve to be recorded. It happened, that when the midnight bell called the fathers of his convent to rehearse, their mattins, they were all so found asleep, that not one but himself awoke. haftened towards the chapel, he heard melodious founds; and when he entered it, he found the vacant feats occupied by angels,

and

and faw the bleffed Virgin in his own, chanting the mattins with more than human fervour.

In the representation of this marvellous event, the painter has exerted his utmost abilities, and called forth all the powers of his art.

Beside these, we find four incomparable pictures by Españoleto, two good ones by Risueño, and one excellent by John of Seville.

Here likewise is the famous sculpture of Charity; and here is deposited the image of the Virgin, carried by Ferdinand and Isabella in all their wars, as the pledge of victory.

In the Cartuxa, or convent of the Carthusian friars, every thing is valuable. The pictures are numerous, and executed by the best masters, such as Pedro Perugino, Alonso Cano, Palomino, Giuseppe Ribera, called el Españoleto, Athanasia, who subscribes himself Athasi, Cottan, a father of this convent, Titian, and the divine Morales. The most striking pictures are, for beauty, Paul, the first hermit, sed by a raven; and, for the marvellous, S. Hugo, holding the sacramental cup, in which the wine appears to be changed into a little boy. The

marbles, in great variety, and highly wrought, are from the vicinity, and appear to be well chosen. Their wine is excellent.

In the church of nuestra Señora de las Angustias, is a profusion of fine marble, with which the mountains in this vicinity abound; but no church in Granada shews more want of taste. The Corinthian pillars, had they been simple, would have been admired; but they are deformed by needless and most unmeaning ornaments.

The other convents, remarkable for good pictures, are Los Angeles, the Capuchins, and S. Domingo. In the cloisters of the last, are represented in fresco all the miracles of this saint, particularly his restoring to life, by the virtue of his rosary, a man who had been two years buried.

San Juan de Dios has a beautiful church, to be admired for its proportions, but to be execrated for abfurdity and want of taste in all its ornaments. Here the treasures are inestimable. The urn, in which are deposited the ashes of the saint, is five feet high, surrounded by thirteen images of the apostles, each of about sisteen inches, and covered by a dome, which is supported by eight columns

of about feven feet high; the whole of maffive filver, and exquifitely wrought.

From the convents I turned my attention to the hospicio, or general hospital; and, according to the accounts with which I was favoured by the prefident of the court of chancery, who appears to have paid much attention to this institution, the whole number of men, women, and children was fix hundred and fifty-five. Of these the majority were under the age of fourteen, and the rest chiefly ideots, and people who were become decrepit with old age: yet they are stated to have earned by labour feventy-five thousand reals, or one pound two shillings and eight-pence each upon the average; whilft their food cost only ninety-two thoufand five hundred and twenty-two reals, and their clothing forty-nine thousand one hundred and eighty-five; the former being equal to one pound eight shillings, and the latter to fifteen shillings, that is together only two pounds three shillings each. If there is no mistake in this account, the greatness of their gains, and the smallness of their expenditure, must be equally surprising. It is dated April 21, 1787. This hospicio is the more interesting as having been, perhaps, the first institution of the kind in Europe. It was established by the archbishop of Granada, in the reign of Philip II. much about the time that our Elibeth was engaged in making a provision for the poor.

Here is an academy, as in all the great towns of Spain, for the three noble arts of painting, sculpture, and architecture, conducted at the king's expence, and free for all; but this institution is yet in a state of infancy.

As for the manufactures, they are going to decay, and feel more than the common infirmities of age, receiving at best little encouragement from local fituation, and being depressed and ruined by want of political wisdom in the government of this once thriving city. In the year 1552, about threescore years after the conquest of Granada, many regulations were published, and afterwards, A. D. 1672, confirmed, laying restraints on manufacturers, subjecting them to burthensome formalities, and to vexatious fines, stating the exact width, the number of threads, and weight of each piece of filk which should be wrought in Spain, whilst foreign productions were free from these restrictions,

restrictions, and fixing the price, at which their manufactures should be sold. As a compensation, the price of cattle, corn, and provisions of every kind was likewise unalterably fixed; but as the latter tended to hurt the market, and to depress the farmer, so the operation of the former was to debase the quality of goods, and to bring slow yet certain ruin on the manufacturer, under the absurd idea of savouring the consumer.

The want of political wisdom has been here equally fatal to agriculture, as to manufactures, and to commerce.

At the beginning of the last century, the university of Toledo represented to Philip III. the various grievances, by which the nation had been reduced both as to population and to wealth; stating among these the heavy duties collected in Granada on raw silk, amounting at that time to sixteen reals, or three shillings and two-pence farthing a pound. Don Barnardo de Ulloa, A. D. 1740, makes these amount to nearly seventeen reals and a half, under the various appellations of alcabala, cientos, diezmos, arbitrio, tartil, torres, and xeliz, terms to be hereaster explained; whereas raw silk was

F 4 then

then felling at forty-two reals, so that the tax amounted to more than forty-one per cent.

When Count Campomanes wrote his incomparable work, called Educacion Popular, the rate, according to the pound, was confiderably higher; but the proportion to the value was diminished. He states the duties The royal tithe, upon a supposed valuation, is three reals; the ecclefiaftical tithe, collected in kind, now worth fix reals; tartil, seventeen maravedis, or half a real; and the alcavala, I 132 reals; or, in the whole twenty-one reals, fifteen maravedis, equal to four shillings and three-pence farthing per pound of fixteen ounces: whereas, before the conquest, the Moors paid no more than three reals and a half, or eight pence three-farthings nearly, for eighteen ounces.

This four shillings and three-pence farthing was upon the raw materials; but the alcabala and cientos follow the manufacturer and merchant in all subsequent transfers of property, till it comes into the hands of the consumer.

The alcabala and cientos have been explained already. Diezmos are the tithes; arbitria arbitrio is a tax levied by corporation or municipal government, for provincial purposes; tartil was paid to the magistrate, who took charge of, weighed, and sealed the silk in the public magazines; xelix was paid to the auctioneer who sold it, and who kept the register; torres de la costa is a species of ship-money, for guarding the coasts from the depredations of the Algerines.

It is not possible to think of manufactures in Granada, without calling to mind the expulsion of the Moors, and pausing to examine the policy of that strong measure.

It is univerfally acknowledged, that they were numerous; and that, in consequence of their industry, attended by frugality, they had acquired opulence and power. As to their numbers, we are informed, that of a hundred thousand condemned by the inquisition for apostatizing from the Christian faith, four thousand had been burnt without any good effect. Philip III. in the year 1609, banished to Africa one hundred and forty thousand out of the kingdom of Valencia; and in the three years follow-

ing, fix hundred thousand from Seville, Murcia, and Granada. If to these we add the multitudes who perished by famine, and by sword, we shall be inclined to state the loss to Spain, at least if not with Count Campomanes at four hundred thousand families, yet at one million of its most active subjects.

This lofs, added to what the country had fustained by the previous expulsion of eight hundred thousand Jews, with all their wealth, in the reign of Ferdinand and Isabella, was, under such a government as that of Spain, irreparable.

The Moors are acknowledged, by the best Spanish writers, to have excelled in agriculture, particularly in watering their lands, in the cultivation of mulberry-trees, the sugar-cane, rice, and cotton, all introduced by them; in their peculiar breed of horses: and in the manufactures of silk, of paper, and of gunpowder, first brought into Europe by them.

How then was it confistent with found policy to subject a country to such a loss? and upon what principles could the sovereign justify his conduct?

Their

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Their numbers, their industry, their frugality, with their consequent opulence and power, were circumstances, if taken in connection with some others, which led to their ruin and destruction: because, when government confidered the obstinate adherence of the Moors to their own religion. their invincible hatred of Christianity, their unity among themselves in point of customs, of language, and of creed, and their constant correspondence with the enemies of Spain in Africa; nay, when government regarded them as enemies never to be reconciled, and fituated in a part of the peninfula naturally not only strong, but most accessible by a foreign power; their numbers and their wealth were the very circumstances, which made them formidable, and tended to create alarm.

Gentle methods had been tried, more rigorous had been adopted; and, from the time that cardinal Ximenes burnt their Alcorans, and baptized their children, they had been subject to all the horrors of inquisitorial power, yet in vain; for their constancy was never to be shaken; their adherence to the impostor Mahomet could

not by any means be weakened in the least, much less could it be dissolved. Nothing then remained, but to get rid of them with as little injury as possible to their perfons and their property.

In vindication of this transaction, many champions have appeared, and among them no one seems to have paid more attention to the subject than D. Fonseca, in his work called fusta Expulsion de los Moriscos. Some of his charges are, however, unworthy of his good sense and gravity, serving only to evince the sovereign contempt in which the Catholic saith was held by the Mahometans. I shall refer to them in order, as they stand, and this chiefly with a view of pointing out the means made use of for the conversion of those insidels. Speaking of the Moriscoes, our author says,

When, being conducted to church by the alguazil, they were compelled to take the holy water; they treated it with every expression of contempt; and when the host was lifted up, le daban higas por debajo de la capa; (p. 90.) that is, they thrust their thumb out between the two middle singers; which, in Spain, is the greatest possible indignity

digrity and token of defiance. This, however, they did under their cloaks.

They neither left legacies in their wills, nor did they give money to procure maffes for the fouls of their departed friends, unless when compelled to do so, and then they came to the priest with half a real to purchase half a mass. (p. 92.)

When they were dragged to the confeffionals, they would not acknowledge themfelves guilty either of mortal, or even of

venial fins. (p. 100.)

Out of twenty children born to them, they carried one only to the baptismal font, and him they baptized twenty times, under twenty different names, and even lent this child from one village to another. (p. 106.)

They ill treated the images of the faints, which they were obliged to receive into their houses. (p. 128.) That is, such was their abhorrence of every thing bearing the least appearance of idolatry, that, to express their indignation, they forgot good manners; and these images were found in the most indecent places, with their heads downwards, and other marks of fovereign

contempt

contempt upon them. (v. Geddes Exp. of the Morisc.)

Should the measure itself be vindicated under the plea of necessity, yet the mode in which the expulsion was conducted can never be approved; for the Moors had only fixty days allowed them to dispose of their effects: yet, in quitting the kingdom, they were not to carry out gold, filver, precious stones, unless under the heavy duty of fifty per cent. nor even letters of exchange; but only merchandize purchased of native Spaniards. By their expulsion, houses went to ruin and decay, lands were left uncultivated, commerce was neglected, and manufactures felt the severest shock, a shock fuch as fome scarcely survived, whilst others where wholly loft. The fudden departure of this multitude left a vacuity which it was not eafy to fill up, more especially by a nation, which, having for the space of feven centuries been trained to war, and inflamed only by military ardour, had learnt in that long interval to look down with contempt upon all, who were engaged in the mechanic arts, and more especially to despise

despise those occupations in which their antagonists excelled.

Numerous privileges and immunities enjoyed by the bidalgos or knights, fometimes called bijos dalgo, have contributed very much to confirm hereditary prejudices to Their depositions the detriment of trade. are taken in their own houses. They are seated in the courts of justice, and are placed near the judge. Till the year 1784, their perfons, arms, and horses, were free from arrest. They are not fent to the common jails, but are either confined in castles, or in their own houses on their parole of ho-They are not hanged, but strangled, and this operation is called garrotar, from garrote, the little stick used by carriers to twist the cord, and bind hard their loading. They cannot be examined on the rack. They are, moreover, exempted from the various taxes called pechos, pedidos, monedas, martiniegas, and contribuciones reales and civiles; that is, from fubfidies, benevolence, and poll tax, or taille, paid by the common people, at the rate of two per cent. in this province, but in others at the rate of four. They are free from personal service, except where where the sovereign is, and even then they cannot be compelled to follow him. None but the royal family can be quartered on them. To conclude, the noble female conveys all these privileges to her husband and her children, just in the same manner as the eldest daughter of the titular nobility transmits the titles of her progenitors.

The proportion of hidalgos in the kingdom of Granada is not confiderable; for out of fix hundred and fifty two-thousand nine hundred and ninety inhabitants, only one thousand nine hundred and seventy-nine are noble; whereas, in the province of Leon, upon little more than one-third that population, the knights are twenty-two thousand. In the province of Burgos, on four hundred and fixty thousand three hundred and ninety-five inhabitants, one hundred and thirty-four thousand and fifty-fix are entitled to all the privileges of nobility; and in the Asturias, of three hundred and forty-five thousand eight hundred and thirty-three, nearly one-third enjoy the same distinction.

The two high courts of chancery in Spain

Spain are at Valladolid and Granada. The prefident of the latter honoured me with a statement of the various offices and officers belonging to his court, and subject to his authority. They are as follow:

- 16 Oidores, or civil judges.
- 8 Alcaldes del Crimen, or criminal judges.
 - 2 Fiscals, or attorney and folicitorgeneral.
 - I Alguazil Mayor, or high constable.
 - 1 Secretario.
- 104 Abogados, or counfel.
 - 12 Relatores de la Civil, or reading clerks.
 - Teneinte Chanciller Mayor; vicechancellor.
 - 2 Tesoreros de Penas de Camara y gastos de Justicia, or treasurers.
 - I Contador; accomptant,
 - 16 Escrivanos de Camara; scriveners or notaries.
 - 6 Relatores del Crimen; criminal reading clerks.
 - 5 Escrivanos del Crimen.
- 2 Escrivanos mayores de hijos dalgo. Vol. III. G 8 Por-

- 8 Porteros.
- 3 Agentes de los Fiscales.
- 40 Receptores, to recover fines.
- 32 Procuradores; folicitors.
- 32 Alcaldes de barrio; constables.
 Alcaldes de Corte.
- 11 Alguaziles de Corte.
 - 6 Escrivanos de Provincia.
 - 1 Repostero.
 - 1 Alcayde de la Carcel de Corte;
- 18 Porteros.

The municipal government is in a corregidor, twenty-four regidores, and twelve jurados, or in a lord mayor, aldermen, and common-council-men; with two alcaldes mayores, one alguazil mayor, thirty alguaziles ordinarios, three escrivanos de Cabilda, twenty-four escrivanos del numero, thirty-two escrivanos reales, one alcaide de la carcel real, or jailor of the royal prison.

These likewise are subject to the presi-

dent of the court of chancery.

During my stay in this delightful city I paid several visits to Don Fr. Antonio de Gardoqui, one of the inquisitors, in whom I found

I found a man of superior talents, well informed, and of remarkable humanity. After I had been one evening with him in his coach, attended by his affociate, to take the air in the paseo or public walk; the archbishop did me the honour to examine me respecting my feelings, and, in a pleasant manner, asked me, how an English clergyman, a teacher of herefy, could venture his person in a coach between two inquisitors? I told him, that when I had the honour to dine with those gentlemen at his grace's table, I had watched them narrowly, and observed, that they ate beef and mutton like other men, and concluded thence, that I had nothing to apprehend from them. The idea struck him; he laughed heartily, and affured me, that the inquisitors of the prefent day were become more gentle than their fathers, and feldom regaled themselves with human flesh; but, said he, look sharp, for they have not yet forgot the tafte of blood.

This was true; for although the Quemadero, when I went to view it, appeared to be neglected, and was suffered to decay; yet, not more than eight years before, two

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Jews and a Turk were burnt upon it; and in the year 1726, the inquisition seized three hundred and fixty families accused of being fecretly attached to the Mahometan religion. The accusation, in all probability, was true; because the court of the inquisition, amidst many imperfections, is remarkable for investigating facts; and even to the present day, both Mahometans and Iews are thought to be numerous in Spain, the former among the mountains, the latter in all great cities. Their principal difguise is, more than common zeal in external conformity to all the precepts of the church; and the most apparently bigoted, not only of the clergy, but of the inquisitors themfelves, are by some persons suspected to be Jews.

Whilst I was at Granada, I had an opportunity of seeing a wretch hanged for robbery and murder. He had been twelve months under sentence of death, before he was ordered for execution. From that time he remained for some days under the direction of a priest, who gave him instructions, received his confessions, granted him absolution, administered to him the last sa-

craments,

craments, with the bleffing of the church, and left him in the full affurance that, thus prepared, he should go immediately to

paradife.

This triumph of christian charity over wholesome policy is universal, and to be found in every part of Spain; where, before the ministers of justice are permitted to execute the sentence of the law, the ministers of grace approach the criminal to administer all the consolations of religion, and to deliver him from the fear of death.

Just as I was entering the Plaza nueva, the poor wretch was standing on one ladder, with a halter fastened round his neck, and the hangman from another was preparing to spring upon him. After a few hours, his body was decently interred.

The environs of Granada are delightful; the public walks are pleasant; and the country, all round the city, appears to be well cultivated. Going out one evening by the way which leads to Malaga, and turning to the right, by the Paseo de jaraqui, I wandered among the market gardens. These appear a perfect wilderness of fruit-trees, and yet are covered with the most

Iuxuriant crops of all kinds of vegetables. Every cottage has a little court, or bower, formed by a lattice - frame, and wholly shaded by the vine; under which, in the evening, the peasant, with his family, as-fembles to take refreshment; whilst the nightingale from every tree is uttering his plantive note. These gardens are all plentifully watered.

Of the public walks, the two most frequented are, one on the banks of the Genil, with cooling shades and refreshing fountains; the other, more wild and romantic, by the side of the Daro, a river known among the Romans by the name of Auro, and so called from the quantity of gold collected with its sand.

In one of my rambles near the Cartuxa, I stumbled on a beautiful specimen of schist, carrying iron and white mica, with numerous dodecaedral garnets, brought down from a higher level by the torrent. Ascending about a mile by the fide of the ravin, I continually discovered more, and, had not a scorching sun compelled me to retreat, I should have laboured to find out the source from whence they came.

This fcorching fun is highly beneficial to the production of nitre, at the falt-works near Granada; where, with about one hundred men, employed during the summer, and twenty-six in winter, government obtains three thousand quintals annually. But then the lixiviating water is not carried by men, as in Madrid, but conducted by pipes to every filter.

To procure the proper kind of earth, they observe the spots which, early in the morning, appear black, and towards noon become white round the edges; this they collect, and find that land, on which has been laid much dung, is the most productive. Once collected, it will endure for ages; and, having been exposed to the influence of the sun and of the air, yields the same quantity as at first on every subsequent filtration. In the places where they find this earth, there is neither limestone, chalk, nor gypsum; and, ashes being extremely scarce, none are used at the bottom of the filters.

I have already considered this wonderful production as a merchant; and happy should I be, were I qualified to discuss it with any satisfaction as a chemist.

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Here a thousand questions crowd in upon the mind. From whence does this earth collect the vegetable alkali, whence the nitrous acid? Supposing the former to be originally the refult of putrefaction, yet, after the earth has been lixiviated, and all the vegetable alkali has been carried off by water, how is it impregnated afresh, merely by exposure to the sun and air; and where does it obtain this inexhaustible supply both of the alkali and its combining acid? But, if we reflect, that, with the nitrous falt, there is constantly found muria, or sea-salt, in confiderable quantities; whence does it derive the fossil alkali, and whence the muriatic acid, not once, but upon every fubfequent exposure?

It is well known that old mortar produces fix kinds of falt: for, befide the two just mentioned, both the nitrous and the muriatic acid are found combined with magnesia and with calcareous earth. But, if we recollect, at Anover and Aranjuez we saw Epsom and Glauber's salt, with the muria and the nitre, and both those salts contain vitriolic acid.

Here, then, new questions will arise. What is the relation between these various substances, substances, of chalk, magnesia, the fossil and the vegetable alkalis? What connection can we trace between the muriatic, nitrous, and vitriolic acids? and, Is there one common

principle of acidity?

This question will be both more natural and more interesting, when we consider, as far as relates to England, France, and Spain, the only countries which have come under my observation, that, in proportion to the quantity of fun, the chalk is found impregnated with vitriolic acid, and forms felenite or gypsum. At least it may be obferved, that in our island we have much chalk, and little gypfum; that in France both these substances abound; whilst in Spain, there is very little chalk, and a profusion of gypsum, more especially in Arragon, and in the fouthern provinces. deed a learned naturalist, who resided many years in Spain, and traverfed it in all directions, with a view to minerals, affures us. that he had never discovered there the least vestige of chalk. (v. Bowles, p. 13.) But I have already noticed it in one place; and in the neighbourhood of Granada it is likewise found, although I was not able to identify the spot,

His observation is however ingenious, and worthy of attention. He never met with it; I saw it only at Cervera, here, and at Picacente.

The connection between chalk and gypfum became evident to me from the moment that I discovered flinty gravel in the latter, precifely fuch as we always meet with in the former. Hence it feems to be plain, either that chalk was gypfum, and has loft its vitriolic acid, or that gypfum was once chalk, and has made this acquisition. I am inclined to adopt the latter hypothesis: and, if this be the true one, we must inquire whence has it derived the acid? Was the chalk impregnated with the vitriolic acid, whilst it remained covered by the waters of the ocean? or is the acquisition fubsequent to that grand revolution to which I have frequently referred? Should we fuppose the latter, and should we be inclined to feek the principle of acidity in the folar ray, we may perhaps be confirmed in this idea by the confideration, that, by means of green vegetables and water exposed to its meridian influence, all modern chemists have produced vital, that is dephlogifficated air, in great

great abundance, always in proportion to the quantity of light, or, in other words, to the greater or leffer influence of the folar rays: and that faltpetre, by distillation, produces the same kind of air, in the proportion of twelve thousand inches to a pound, leaving behind the vegetable alkali uncombined with acid.

Should we be inclined to grant, agreeable to the experiments of Dr. Ingenhousz, that vegetables by day emit vital and by night mephiticair; confidering that Mr. Cavendish produced nitrous acid by the combination of vital air with atmospheric mephitis, in the proportion of seven to three, we should not be at a loss for a never-failing source, from whence this acid may arise.

These speculations might be pursued, and, observing that one pound of nitrous acid, distilled on mercury, yields one thousand eight hundred and eight cubic inches of nitrous and one thousand nine hundred and four of vital air, we should be confirmed in our opinion that we have discovered the origin of the sought-for acid.

Nitrous air is obtained from animal substances simply by putrefaction, or it may be had had by the combination of inflammable and vital air: for, as Dr. Priestley has remarked, in the Philosophical Transactions of the 27th of November 1788, "When either inflammable or dephlogisticated air is extract— ed from any substance in contact with the other kind of air, so that the one is made to unite with the other in what may be called its nascent state; the refult will be fixed air; but, if both of them be completely formed before their union, the result will be nitrous air."

Thus, in the various facts and observations above related, we may see the intimate relation and connection between inflammable, fixed or mephitic, and nitrous air; that the two latter result from the combination of the former with vital air in given quantities; whilst, with a greater proportion of vital air, we obtain nitrous acid; and that, of these its constituent principles, in warm climates, animal substances are, by their putrefaction, constantly producing one, whilst vegetables, by day, are as constantly pouring forth the other.

In the neighbourhood of Granada are some considerable plantations of the sugar-

cane,

cane, which, as I am informed, yielded profit during the war; but are now attended with a loss. Political writers have lamented the loss sustained by Spain in the neglect of this once-flourishing branch of agriculture; as if some fertilizing stream had been cut off, or diverted from its accustomed channel. They would have their country produce every thing it wants, and become thereby both richer and more independent. But in this they forget the benefits of commerce, and the advantages derived by it from the exchange of furplus commodities, when every nation cultivates and produces that, for which the local fituation, the foil, the climate, and the genius of the people, are most adapted. Thus, in the neighbourhood of Granada, the land allotted to the fugar-cane would produce good corn; and the fair question is, Since they cannot have them both, which will be most profitable?

I took notice, in my excursions round the city, that all the corn-mills have horizon-tal water-wheels. These are suited to the country, and on the whole are best for them.

The nature of fociety I found nearly the fame as in other inland fituations, where the manners of the inhabitants derive no tincture from intercourse with strangers. The morning is employed, either in bufinefs, by those who have any thing to do, or, after mass, in visits to the ladies. They dine early, and eat after the Spanish fashion, with the fopa, the olla, and various kinds of meat stewed in their little pitchers, excepting at the prefident's and archbishop's, where the French cookery prevails. After dinner they go to the fiefta: in the evening to the paseo. When the day closes, they affemble at the tertulia, or evening affembly, to which they have access, and here they commonly amuse themselves with some round game at cards.

As for morals, they are much like the rest of Spain: the monks are exceedingly corrupt, and the women have no want of lovers to admire their charms. Yet in justice to them I must observe, that, according to the information of Father Porro, a famous confessor, there are numbers who are uncorrupted by the manners of the age, and who excel, not merely in the form but

in the power of their religion. These, said he, are not accessible to strangers. Silent and retired, they are scarcely either seen or heard; and therefore, added he, a stranger passing through the country is in danger of being deceived in the judgment which he forms, if he too hastily draws general conclusions.

Before I left the city, I inquired, as usual, into the value of provisions.

Beef fells for nineteen quartos, that is fomething under five pence a pound of fix-teen ounces.

Mutton twenty-three quartos, or nearly fix pence halfpenny, in the city: but in the adjacent villages at twelve quartos, or three pence three-eighths.

Bread four quartos and a half, or five farthings and a fraction.

Oil fifteen quartos.

Wine eight quartos the quartillo.

Labourers have four reals, or nine pence halfpenny nearly, per day. Artifans twice as much.

When I was about to leave Granada, my good friend Don Antonio de Gardoqui, the inquisitor, sent me a ham, some chocolate,

and

and fix bottles of old wine, as my stock of

provisions for the journey.

The distance from Granada to Carthagena is computed to be fifty leagues; and for a good mule to carry me I agreed to give two hundred reals, or forty shillings nearly, being at the rate of five shillings a day; not allowing for the return, because the mule belonged to the corsarios, or public carriers.

Thursday 26th April, we left Granada. Near the city the hills are cultivated and covered with vines; but, as we advance, the country becomes more wild and broken, with high and rugged rocks laid bare and destitute of soil. The intermediate plains are abandoned to the Esparto rush, stipa tenacissima of Linnæus, the quercus coccisera, the juniper, and a few miserable ilex.

The rock is chiefly schistous, often covered with limestone; and the surface is scattered with white quartz, which seems to have been formed in the schist, where it appears in considerable veins.

On these high mountains we saw many monumental crosses: but not one is recent,

because,

because, the police being here well established, and the laws now put in force, robberies are seldom to be heard of, and no murder has been committed the last twenty years.

After having travelled about fix leagues we came to a village among the mountains, comprising about one hundred and seventy families. It is called *Diezma*.

As I travelled the whole day fasting, I hastened to the butcher's to see what was to be had. There I learnt the price of provisions, and found that mutton sold usually for twelve, beef for eight quartos (two pence farthing) the pound of sixteen ounces; bread for six and a half. For wine I paid three quartos the quartillo. But, unfortunately, neither beef nor mutton were to be had; and, to fill up the measure of my consolation, at the posada I could obtain no bed, nor yet a room.

What could be done? The day was clofing, and it began to rain. The alcalde was to be fought for; but he was no where to be found. At the end of a long fearch, I met him returning from the field, and, after a short salutation, presented him my Vol. III. H pass; pass; yet to little purpose, for he could neither write nor read. We went next in pursuit of the escrivano, but he was not at home. At last, however, we found a peasant, who had learnt to read and write. The pass was produced, and submitted to an accurate examination. It required, that I should be provided with every thing needful,

at a reasonable price.

The alcalde having listened to it with attention, inquired what I wished to have. I replied, a bed. A bed! no such thing is mentioned in the pass. But, if your mercy will have the goodness to observe the expression, every thing needful: no, no, a bed is not needful to a traveller; he may do very well without one. I told him, with great humility, that it was for his mercy to judge of what the pass implied, and began quietly to retire; when, seeming to recollect himself, he ordered a billet to be made out.

With this I went to my destined cottage, where a bed was spread upon the floor, and I went supperless to rest, having had little for the whole day but some hard eggs, and, for want of a cork-screw, such

wine

wine only as the vineyards, in the neighbourhood produced.

The next morning the good people of the house prepared my chocolate; and, when I was to take my leave, no perfuafions could prevail on them to accept of money for my bed.

From Diezma we began descending, and foon came into a spacious plain, bounded on the fouth by the mountains of the Sierra Nevada; rich in its foil, but too far removed from habitations to admit of cultivation, and therefore abandoned to the esparto rush. From this plain we continued to descend by the side of a wide and deep ravin, in which appear many horizontal strata of rock, separated from each other, ten, fifteen, and even twenty feet, by beds of clay, fand, and gravel. Having left the ravin, we came to a little village, called Parittena, thut in by high cliffs of the same materials, with some beds of unmixed gravel. Here many of the habitations are merely excavations in the earth.

At night we came to Guadix, having travelled from Granada twelve leagues by VEWS

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computation, or, as I conceive, about fifty miles.

All the way on the right, towards the Sierra, the country has a most singular appearance, looking like the stormy ocean; and the innumerable pointed hills seem to have attained, what may be called their quiescent state, being no longer fretted, washed away, and ravaged by heavy rains and vernal torrents. Protected by herbage, they are now fed by every shower, and at this season of the year exhibit a delightful verdure.

It is evident, that the formation of these hills is of recent date, and subsequent to the general resolution, which took place when the horizontal strata, for ages covered by the waters of the ocean, were listed up to view, and became the habitable portion of our globe. At that period, the whole of this country appears to have been one extensive plain; but, being composed of soft materials, and subject to violent and heavy rain, it was soon torn in every possible direction by gullies, which, in process of time, became deep ravins, till, the mouldering angles of high cliss being washed away.

away, the wide expanse was left covered with hills, whose pointed tops, as we may here observe, are all on the same level.

The elevation of this country is so great, and such is the influence of the adjacent mountains, covered with eternal snow, that the vineyards shew no signs of vegetation; whereas at Malaga, eighteen days before they were covered with leaves and fruit.

Guadix, situated at the foot of the Sierra Nevada, is a considerable city, and a bishop's see. It is divided into five parishes, and contains eight thousand three hundred and fourteen inhabitants, with seven convents, sive for monks, the other two for nuns.

At the entrance to the city is the alameda, or public walk, well planted, and remarkable for neatness.

The cathedral exhibits three orders of architecture, Corinthian, Composite, and Anomalous. The front is whimsical, yet pretty. The inside is Doric and Corinthian. The marble, from the vicinity of this city, is beautiful, and of various colours, red, grey, white, and green.

There are here some manufactures of hemp, flax, and silk; but the situation is

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far from being favourable to them. The article for which this city is most celebrated being pocket knives, the first attention of my guide was to purchase one; and when we set forwards on our journey the succeeding day, he produced it.

The blade was fixteen inches long, and, when open, it was prevented from shutting again by a strong spring. Although this was the first of the kind I had ever feen, my imagination immediately fuggested the purpose for which it was defigned. Having produced his weapon, he began to brandish it; then, supposing himself to have been fuddenly attacked by some one, armed with an implement similar to his own, he stooped forwards, bending his knees, and holding his hat before him, by way of shield, in his left hand; whilft his right hand, depressed and grasping hard the handle of his knife, directed its elevated point. Thus prepared, and casting a look of fury on his supposed antagonist, he sprung forwards, and, appearing to have received in his hat the thrust of his opponent, he gave the fatal blow, which was to enter at the lower belly, belly, and in one instant to rip up the miserable wretch from end to end.

These knives are strictly forbidden; but, unfortunately, inveterate custom is too powerful for human laws, more especially in a country where the passions are easily inflamed; and where, from the nature of the judicial process, the laws must be weak in the extreme. For, as we have remarked already, no information can be taken but by the escrivanos, nor can any judgment be pronounced but upon their record. Now as these officers are usually poor, and not unfrequently destitute of principle, they may, without much difficulty, be perfuaded to change the complexion of an action, and at pleasure to make it either black or Hence, from impunity, affaffinations are frequently committed; and, as little fecurity can be derived from the laws, it becomes the interest of every man to be armed for his own defence. With this view only he procures the formidable weapon; but, when provoked to anger, his views are changed; that which was defigned for his own protection, becomes the inftru-

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ment of treachery, of malice, and of re-

Throughout this elevated country, there is little appearance of cultivation, although many confiderable tracts of land, over which we passed, are good, and much of it might be watered. The natural productions are pines, juniper, savine, rosemary, with other aromatic herbs, Spanish broom, and the passerina birsuta, but chiefly the esparto rush.

Whist traversing these mountains, the snowy tops of which are lost in clouds, we observed many slocks of goats, some of them numerous, and one consisting of sive hundred; but we saw no sheep. As we advanced we met nine waggons, and a long drove of asses, loaded with slax, going to Granada. The leader in these droves is always distinguished from the rest, and will never suffer another to usurp his place.

The waggoners and drovers were all affembled, and, being seated on the grass before the doors of a venta, that is, a solitary inn, were eating for their dinner some snails dressed with rice. As we approached, one of them respectfully rose up, and invited vited us to partake of their repast. We as respectfully declined the offer, and proceeded to another venta, at the distance of about four leagues from Guadix.

Near this place I had an opportunity of observing the strata, and found them composed promiscuously of quartz, slint, schist, and limestone gravel, all rounded as by the action of water.

The trillo was smaller than any I had seen before; and, instead of slints, had forty bars of iron to cut the straw.

Soon after we had left this venta, we began descending by the side of a baranco or ravin, and with the highest satisfaction entered the rich vale of Baza. Yet even here the vines had not begun to bud.

Baza is faid to contain fix thousand five hundred families. The cathedral is scarcely worth attention. The organ indeed is large and handsome; but the great altar is antiquated, and void of taste.

Below the city is an extensive well-watered plain. The soil is very white, and, although, remarkably strong, is tilled with the plough last described, without either coulter, sin to the share, or mouldboard;

yet the wheat appears tolerably good, but the barley is very bad. They plough with mules.

From hence, ascending for near two leagues, yet still traversing the same plain, which is bounded every way by snowy mountains, in a circumference of about thirty miles; we discovered, that through this whole extent of country the natural rock is gypsum, and from that circumstance arises the whiteness of the soil in the subjacent plain. The strata appear to be horizontal, and are many of them composed entirely of double lenticular crystals of selenite, like those of Montmartre, in the vicinity of Paris.

Nitre is remarkably abundant over the whole extent of this gypseous country.

On Saturday, April 28, in the evening, we came to Cullar de Baza, a wretched village, with many habitations excavated in the rock of gypfum. Previous to our departure, the fucceeding day, it was indifpenfable that we should go to mass.

Here I observed, that, as the chapel was not sufficiently capacious to receive all the people who attended; many stood on the outside. outfide, where they could neither fee the officiating priest nor hear his voice. When however, the found of a little tinkling bell had reached them, they smote upon their breasts, and, having crossed themselves, their devotions for that day were ended. Being at liberty to spend the remainder as they pleased, some began to amuse themselves with sports and pastimes, others worked in their gardens, and some went out to plough.

The little valley, which supplies this village, is about a quarter of a mile in breadth, inclosed by barren gypseous mountains; and although it is well watered, and consequently fertile in flax, hemp, and wheat, with vines on the more elevated spots, yet the population bears too great a proportion to the extent of land susceptible of cultivation.

Looking down upon so rich, yet such a contracted spot, we instantly and evidently see that the human race, however at first, and whilst their numbers are limited, they may rejoice in affluence, will go on constantly increasing, till they balance their quantity

quantity of food. From that period two appetites will combine to regulate their numbers. Beyond that period, should they continue to increase, having passed the natural limits of their population, they must suffer want. In these circumstances, beholding many of the poor, naked, and half starved, should they inadvertently ordain, that no one in their community should want, that all should have food, and every man an habitation; is it not obvious, that they would aim at impossibilities, and that, by every effort to relieve distress, they would only extend the bounds of human misery.

This subject is highly interesting, and should be thoroughly discussed; but, as I have treated it professedly in a Dissertation on our Poor Laws, and often occasionally in this work, I shall drop it for the prefent.

All the way from Cullar de Baza to Vertientes, three tedious leagues, we keep winding among the hills, which are covered with rosemary and aromatic herbs, but chiefly with the esparto rush and a few straggling pines. Here we saw no sheep.

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The whole country is given up to goats. Of these we admired one flock, containing two thousand, all as white as milk, feeding among the rocks, and scattered on the sides of a high mountain.

As we approached the puerto, or pass, we observed a few sheep among the goats, and some droves of pigs feeding round the scattered ilex.

Vertientes, so called from the parting of the waters, has twenty-five families; and Contador, at a little distance, has twenty more.

Beyond this pass the prospect opens, and, in proportion as we descend from the high country, where the waters divide, one portion passing by the Daro to the Xenil, and thence by the Guadalquivir into the ocean; whilst the other, by a shorter passage, is precipitated with the Guadalentin, near Carthagena, into the Mediterranean sea. In proportion as we descend, vegetation begins to seel the influence of a warmer sun; the soil becomes more fertile, and all its productions appear luxuriant. The esparto rush, which in those elevated regions could scarcely be distinguished

guished from grass; at a lower level becomes long and rampant. The vines begin to shoot, the lark is warbling in the air, and throughout a wide-extended valley the crops every where promise an abundant harvest.

At the distance of a league from Vertientes, or, according to the expression of my guide, of a league as long as Lent, is Chirivel, a village containing a hundred and sifty houses, which, with sourteen others, including all the adjacent country, and one third of the tithe, is the property of the Dutchess of Alba. Here they have neither beef nor mutton; goats slesh sells for ten quartes, or $2\frac{13}{16}$ pence a pound of sixteen ounces; and bread for two quartos and a half, or $\frac{43}{64}$ of a penny.

From hence we descend three leagues in the wide channel of a torrent, shut in by high hills and rugged rocks of schist, all the way to Velez el Rubio, where the country again opens on the view, and the vale expands.

This town is faid to contain three thoufand families, with one folitary convent, and a beautiful church, built by the Dutchess

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Dutchess of Alba, to whom the town and the adjacent lands belong.

The Posada makes a magnificent appearance, and, for a Spanish inn, may be called commodious; but, confidering the expence the Dutchess has been at for the advantage of the public, more attention should have been paid to the comfort of genteeler travellers. The rooms, destined for their reception, are of a good fize, and communicate by means of a spacious gallery. But the whole of the ground floor is abandoned to the carriers, and confifts of a fmall kitchen, with a vast repository, designed at once for the lading of their mules, for their entertainment, and for their dormitory. Here their noise and riot, resounding through the house by means of the long gallery, is intolerable; and, as the kitchen is open, they are constantly crowding round the hearth to procure their suppers, leaving the mistress of the posada no leifure to pay attention to any guests beside themselves.

The town is commanded by a castle formerly strong, now going to decay.

They have no beef. Mutton is fold for twelve

twelve quartos a pound, (3 15 pence), goats flesh for ten, bread for four.

From Velez you pass over an open and a fertile plain, till you reach the confines, and from the kingdom of Granada enter Murcia. Here the prospect changes; and, instead of a level country productive of grain, and not destitute of fruit trees, you meet with nothing but hills, barren, wild, and desolate, the resort of wolves, and covered chiefly with the esparto rush.

To guard this pass, a castle, called Xixena, formerly a place of strength, was erected on the summit of a craggy rock, and its ruins still preserve a respectable appearance. The rock is schist,

As we drew nigh to Lorca, we overtook numerous droves of asses, loaded with pine-wood, cleft for the service of the hearth; and observed the Tamarisk, with the Nerium Oleander in great abundance.

Here the foil is white, and the gypfum rock appears.

After having passed three days in these elevated regions, constantly in sight of snow, and exposed to the severity of the winter's cold, the sudden transition to the

heat

heat of summer, as we descended into the plain, was more striking than agreeable. No sooner were we arrived near Lorca, than we observed multitudes of swallows, and when we came into the city, we were pestered with myriads of slies. On the mountains vegetation ceased, whilst at a lower level the peasants were engaged in the toils of harvest.

The hardships to be endured in the journey from Granada to Lorca, can be fully comprehended by those only, who have paffed this way. With respect to living, it is bad; with regard to lodging, it is worfe. I had indeed taken the precaution, or rather my friend the inquisitor had the goodness to provide a ham, and fix bottles of good wine, but to little purpose; for unfortunately the ham had been neither boiled nor watered; and in this whole extent of way, and indeed in the whole tract of country between Granada and Carthagena, no vessel could be found big enough to boil it in, nor any thing deeper than a fryingpan. At Cullar de Baza I had ordered it to be dreffed; and a traveller, who had joined me on the road, recommended that Vol. III. it it should be boiled in wine. I gave orders accordingly, and I paid for the wine; but when, in the morning, I attempted to cut some slices, I sound it was raw, and upon examination, sound that my ham had been for hours over a little bit of sire, and in a vessel sit only for the frying of eggs. My wine occasioned equal perplexity, for I had no screw, and could neither procure a fork to draw out the cork, nor was there room to thrust it in. Patience, and a penknise, however, at last relieved me from this part of my distress.

The first night of my journey I was so happy as to be in a place, where my pass-port could procure a bed; but in a succeeding night, being at a venta, had not the good gypsies, for such they were, spread their own for me on the floor, I could have sound no resource. They indeed at first resused; but when they saw that I was ill and fainting, they took compassion, and with cheerfulness resigned the bed, reserving, however, for themselves the chamber in which it had been spread.

But in Lorca, after having regaled myself with a good supper, and slept soundly in a comfortable comfortable bed, I forgot all former hardships.

Lorca is a confiderable city on the banks of the Guadalentin, and contains, in nine parishes, twenty-one thousand eight hundred and fixty-fix inhabitants, with eight convents for men, and two for women. It had lately manufactures of filk, wool, and linen, but these are gone to decay. Should the canal, intended to run up into the country, and to form a communication with Carthagena, be carried into execution, trade will revive, and agriculture, by the watering of more than three hundred thousand acres of good land, will receive fresh vigour; for fuch is the effect of moisture, in this warm climate, that, in a rainy feafon, the farmers have received a hundred for one upon their wheat.

The falt-petre works are here extensive, and appear to be conducted at a small expence of fuel.

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I was delighted with the public walks, resembling the parks at Oxford, but upon a more extensive scale, and more beautiful, because the corn-fields, inclosed by them, are watered. Here, in the evening, the

inhabitants affemble to take their exercise, and to enjoy their social intercourse under the shadow of the lofty trees.

The parade for the militia is spacious, and after sun-set affords a pleasant walk.

Of the convents, those most worthy of attention are S. Jago, S. Domingo, and La Merced.

The great church has nothing remarkable within, excepting a curious grant from the bishop and the dean, of forty days indulgence every time any penitent shall say a pater noster and an ave maria to six saints, named in the grant, provided this be done for the benefit of the souls in purgatory.

The front of this church is elegant, the columns numerous, the architecture is Corinthian and Composite. Here every criminal may find a safe asylum.

An old castle, standing on the edge of a high rock, formerly the object of dependance, or of terror, is now regarded with indifference.

As we traversed the plain, after having turned our back upon this city, we took notice of the tillage. The land is strong,

the ploughs are fimilar to the one last defcribed, and in these are used two asses. With such apparently bad husbandry, how astonishing must be the influence of the sun, to produce upon their watered crops of wheat a hundred-fold in proportion to seed!

Near the city we remarked olives in abundance, with many mulberry-trees; and took notice of numerous flocks of sheep, but saw no pens for them. The shepherds were attended by strong dogs, armed with spiked collars, whence I collected that wolves find shelter on the mountains.

My guide talked to me of some lead and copper mines in this vicinity, but I had no opportunity to visit them; yet I saw clearly, by the nature of the mountains, that minerals must abound in them.

As we increased our distance from Lorca, we lost fight of cultivation, and ascended among hills covered with esparto rushes, yet not altogether destitute of other vegetable productions, such as are more pleasing to the sight. Among these, the principal were the spartium, or Spanish broom, the nerium oleander in a few savoured spots,

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the passerina birsuta, and the lovely cistus in abundance.

The soil is white with gypsum; yet the rocks on the mountains to the right and left appear to be of schist. Nitre, both on the hills and in the vallies, might be collected in the greatest plenty, and at a small expense.

Here the peasants wear short trowsers, and buskins, called by them alpargates, which are made with the esparto rush. Of these a man is able to manufacture two pair a day, and requires for his own use one pair every fortnight, being at the rate of about twelve shillings a year for this article of dress: whereas in Granada, where the shoes are made with hemp, and cost three reals, a pair will last three months, being at the rate only of two shillings and four pence per annum.

After having travelled seven leagues, we came to a village, called la Penilla, containing fifty scattered cottages. It is situated on the elevated tract of land, which is interposed between the two vales of Lorca and of Camponubla. The soil is calcarious, and produces, of wheat, eight for one; but

of barley twenty-four for one. A few mulberries, figs, olives, and prickly pears, by their luxuriant growth, serve to shew what the country, if duly cultivated, is able to produce. The barley is already housed, and the wheat is nearly ready for the sickle.

The land lies healthy, without the least fign of stagnant water; the springs are more than a hundred feet below the surface, and the inhabitants are remarkable for being free from tertians and from putrid fevers, whilst the vallies suffer exceedingly from both.

They have here no great proprietor, nor vinculo, as they express it. That is, the estates are freehold, and not entailed. Nothing, therefore, is wanted but a market to promote their industry. Bread sells at four, and mutton for ten quartos the pound.

We left la Penilla at fix in the morning, and traversing a level country, shut in with high mountains and craggy rocks of schist, we came to the pass, and from thence descending to enter the vale of Carthagena, beyond the summit of the hill, we lost the

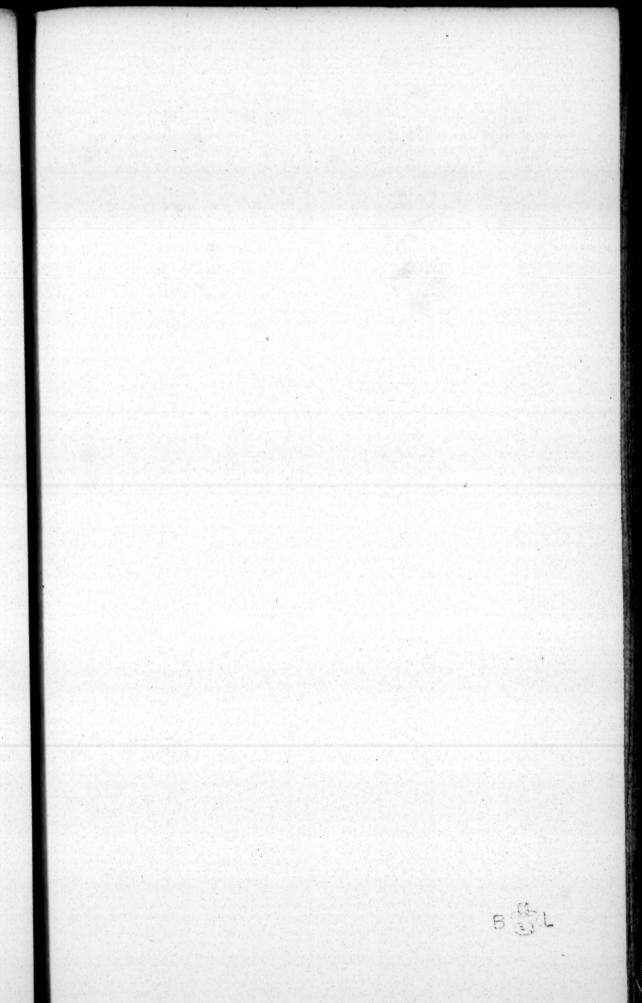
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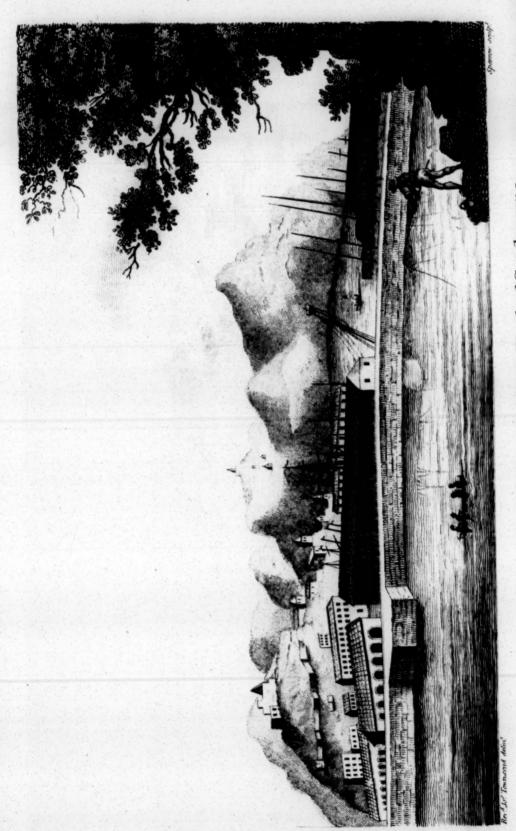
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limestone for near a league, and found the schist; but, leaving that behind us, we again met with calcarious earth and limestone, whilst all the higher rocks are evidently schist.

Near the summit is a noria, with water at the depth of ten feet from the surface.

Wednesday, May 2. I arrived at Carthagena, about the middle of the day, and found a most hospitable reception in the samily of Mr. Macdonell, an English merchant established there.





AView of the City, Harbour, & Dock Yard of Carthagena.

CARTHAGENA.

CARTHAGENA occupies the declivity of a hill, with the little intermediate plain between it and the harbour. This city is protected from the fouth and from the west by high mountains and barren rocks; but to the north and to the east it is open, and communicates with an extensive valley.

This valley, as we have feen, is feparated from the plain of Penilla by a ridge of hills, which is a continuation of the mountains above mentioned; whilst, to the north, another chain of mountains divides between it and the vale of Murcia.

On the fummit of the hill, commanding the city, is a castle now going to decay; but, on the adjacent heights, are raised considerable works to defend the harbour, with the arsenals and dock-yard.

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They reckon here fixty thousand souls, distributed in fifteen thousand families.

The streets are wide, and the houses are commodious. They have generally flat roofs, which, in a climate like this, administers to the comfort of the inhabitants, affording them a cool retreat, where, after fun-fet, they may affemble to enjoy the refreshing breeze; and, as the rainy season is of short duration, these are fufficient to protect the interior of their mansions from humidity. The new parade, extending east and west at the head of the harbour, and looking through its entrance into the Mediterranean, is built on a regular plan: and, as a high schistous rock has been cut away to make room for this long range of habitations, excellent vaults are excavated behind each house, for the service of the merchants. At the end of this stands the royal hospital, a vast establishment, destined to receive the fick from the dock - yard and the army; with the prefidiarios, or criminals condemned to the gallies, and in Spain reduced to the lowest state of servitude.

The cathedral, a miserable pile, is now degraded, and the bishop's see being removed

moved to Murcia, it is become a parish church.

Of the convents not one appeared worthy to be noticed; but the proportion allotted to the men is certainly remarkable; because, of nine, eight are occupied by them. Yet I could not learn the reason for this neglect and want of provision for the sex, whose helplessness, whether in the state of orphans or of widowhood, pleads powerfully for such a resuge; and who by nature are most suited to the devout and peaceful engagements of the cloister.

I wished to have visited the dock-yard: but, when I left Madrid, knowing that I should meet Mr. Macdonell, I neglected to solicit letters of recommendation, and, for want of an order from the court, I was not able to procure admission. My loss, however, was the less to be regretted, because I had visited the arsenals at Cadiz, and because every part of this dock-yard may be distinctly seen, either from the adjoining hills, or from the houses, which look down upon it.

In the midst of the yard is a spacious bason, and in it the ships of war are moor-

ed, each in front of the magazine destined to receive her rigging and her stores.

The docks are kept dry by fire-engines, and of these, three are almost constantly at work. Considering the enormity of this expence; it appeared to me, that by means of water they might raise a ship to the needful height, and then suffer the fire-engine to rest till water was required to let her down again.

They have here two thousand criminals,. chiefly fmugglers, who, being condemned to work in chains, are called prefidiarios. These are employed in the most servile labour, some for five, others for seven years; and at the expiration of these terms, they are turned loofe upon the public, not corrected nor trained to habits of industry, but vitiated by the fociety of thieves, and unfitted to purfue the occupations, to which they had been originally trained. Before the introduction of steam-engines, these wretched creatures were obliged to work at the chain pumps; but fuch was their malignity, arifing from despair, that many, watching their opportunity, would throw stones.

stones, nails, and bits of iron, into the

pumps, to spoil them.

These two thousand slaves require five hundred soldiers constantly to guard them; and, independently of this expence, they cost each to government five reals a day for their maintenance; whilst their work cannot be estimated at one-tenth of what they eat.

This abfurd practice of employing convicts in the public fervice, is no longer confined to Spain. We have adopted it in our more enlightened island, as may be feen at Portsmouth, where the master general of the ordnance finds employment for two or three hundred criminals, who are better fed than the most sober, honest, and laborious of our peafants. Their daily allowance amounts to more than eighteen ounces of bread, with nearly a pound of butchers meat, an ounce of cheefe, a quart of foup, nearly a quart of beer, and plenty of potatoes. Thus fed, with good clothes, a comfortable lodging, and light work, is not their condition to be envied by the industrious poor? Yet fuch, to the nation, is the expence, that the charge charge for each individual is more than fufficient to maintain a family.

If, at Carthagena, we calculate the allowance for their convicts, omitting the foldiers pay, we shall find thirty-fix thousand five hundred pounds expended, befide what is spent for the same purpose in the other fea-ports and garrifons of Spain. Yet, notwithstanding the enormity of this expence, and the cruelty thus exercised on the persons of those, who, under a wifer government, might have been profitable citizens, fuch is the effect produced by a vicious system of finance, that neither are these reclaimed nor are others intimidated from treading in their steps; whilft, with regard to the revenue, not merely is little gained in proportion to what is taken from the public, but, by the subtraction of such multitudes from profitable employment, their labour is loft to the community.

In this dock-yard the masts and timber are floated in water, without the least apprehension of their suffering by the worm; because, as they never open their sluices till the water is become putrid, the evapora-

tion,

tion, proceeding with rapidity, leaves a strong brine, in which it is impossible the worm should live; whereas, in the north of Spain, where the evaporation is not sufficient for this purpose, they bury their masts in sand, and by pins prevent their shoating, when they are covered by the tide.

The fishery at this sea-port is considerable. It is divided into two branches, perfectly distinct and independent of each other; that within the port being the property of a fishing company, consisting of eighteen associates, established here by charter, whilst, in the open sea, all mariners who are enrolled, are at liberty to fish.

Within the port they take chiefly the atun, or tunny, and the melvas; but the former is the most profitable. It is from five to seven feet long, in shape somewhat like a mackarel, but the head is large and the tail is very small; the sless is brown and slaky and admits of being salted. By this they clear about ten reals, that is two shillings, per arroba, or one penny, nearly, a pound. The melvas are purchased by the regidores

regidores for fixty reals, that is twelve shil-

lings, the hundred.

Half the quantity of fish taken in the harbour must be fold for the benefit of the poor, at a price appointed by the regidores; and the king takes one-half of all their profits, amounting to about a thousand pounds a year, as a compensation for his claim of one quarter of their fish. They are not allowed to follow their occupation in the night, left they should take that opportunity for fmuggling. In addition to these impediments, the regidores take the best fish themselves, at their own price; and, whilst they purchase at fixty reals, they sell again at a hundred, dividing the plunder among themselves. Till the year 1750, the corregidores, alcaldes, and regidores, claimed the privilege of taking the best fish without paying for it, under the title of postura, that is, a bribe or recompense for fixing the price; but, by a royal edict, that practice was prohibited; and now, if they resolve to plunder, it must be circuitously.

In the open sea the fishermen enjoy more freedom from oppression, and have peculiar privileges.

privileges. Their fresh fish is disposed of in the market, free from the alcavala, millones, arbitrio, and every other tax, only fubject to the regulations above related, by which their profits are reduced; but as a compensation, for their salt, supplied from the royal magazines, they pay one real per fanega less than others to the king, and have fix months credit. They export their falt fish duty free; and for home consumption, whilft foreign fish pays ten they pay only two per cent. in lieu of alcavala and millones to the crown. Yet they complain of being plundered by the intendant of marines, from whom they are to obtain their licence, and allege that he likewise robs them of their fish.

The magistrates, if called upon by the fish-carriers, must fix a reasonable price on baskets, casks, and package, and must determine what shall be paid for the weighing of their fish.

Here they make great quantities of the esparto ropes and cables, some of them spun like hemp, and others platted. Both operations are performed with singular rapidity. These cables are excellent, because Vol. III.

they float on the surface of the water, and are not therefore liable to be cut by the rocks on a foul coast. The esparto rush makes good mats for houses, alpargates for peasants, and latterly it has been spun into fine thread for the purpose of making cloth. If properly encouraged, there is no doubt that the manufacture may be brought to such perfection, as to make this once useless rush a source of abundant wealth to the southern provinces of Spain.

We have remarked, this rush, as the peculiar and natural production of all the high and uncultivated mountains in the south; and here we cannot help admiring the bounty of providence in thus administering to the wants of man, and giving abundantly in these dry and elevated regions, where neither hemp nor slax will grow, materials proper for his clothing, and for the employment of his industry.

The Spanish government, in order to derive a revenue from this valuable article of commerce, began, A. D. 1773, with laying a duty of two and a half per cent. on the exportation of the manufactured rush, and nine maravedis per arroba on the raw

material.

material. But some few years after, willing to confine the manufacture altogether to their own subjects, they proceeded further, and forbad the exportation of the raw material; yet, unmindful of their favourite maxims, they have given to John Baptista Condom, of Madrid, a licence, nay an exclufive privilege, of fending it to a foreign market.

The most important production of this country, and the most valuable article of commerce is barilla, a species of pot-ash, procured by burning a great variety of plants almost peculiar to this coast, such as foza, algazul, suzon, sayones, salicornia, with barilla. It is used for making soap, for bleaching, and for glass.

All the nations of Europe, by the combustion of various vegetable substances, make fome kind of pot-ash; but the superior excellence of the barilla has hitherto fecured the preference. The country producing it is about fixty leagues in length, and eight in breadth, on the borders of the Mediterranean.

The quantity exported annually from Spain is about a hundred and fifty thousand

K 2 quintals, quintals, paying a duty of seventeen reals per quintal, consequently producing a revenue of twenty-sive thousand five hundred pounds a year: yet, as we are informed by Don Bernardo de Ulloa, A. D. 1740, this article was farmed at six million two hundred and fixty thousand four hundred and twelve maravedis, that is £.1,822. 45. 3d. Were it not for this oppressive tax, the quantity exported might be much increased, because the French, who formerly frequented the Spanish markets for barilla, are now supplied from Sicily, where, next to Spain, the best may be procured.

Carthagena is indebted principally to M. Macdonell for this article of commerce; at least to him must be attributed the flourishing condition to which it has been brought, because, previous to his establishment in this city, little of it was produced in the vicinity, and none was transported from a distance.

All the herbs already mentioned, as yielding the pot-ash, are indigenous, and may be collected in a swamp called Almojar, to the eastward of the city. Of the soza I found two species, the one called blanca,

the other fina. These are both good, yet not equal in quality to the fayones and harilla.

The chief imports are bale goods and bacalao; the latter directly from Newfoundland, under the duty of thirty reals the quintal, or about fix shillings the hundred weight. Of bale goods, muslins and cottons are prohibited; yet as many are now brought in as when the ports were open to them, government suffering thereby in the revenue, and the people paying double the former price for these commodities.

In my excursions round the city, I took notice, that the extensive valley to the north, and to the east, is beautifully varied in its form, every where either rising into little tumuli or sinking into bottoms; and although not enriched by any rivers, yet, from a few scattered norias, it is evident, that even the highest land might be plentifully watered. The soil is loomy, composed of calcarious matter, sand, and clay, from the dissolution of the adjacent mountains, which are of schistous rock covered with limestone.

They use oxen for draught; but in til-K 3 lage

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lage they employ mules and affes, with the

plough last described.

Their course of husbandry is wheat, barley, and fallow. For wheat they break up their land in September, and, after three ploughings, the feed is put into the ground about the middle of November or the beginning of December. In July they reap from ten to a hundred for one, in proportion to the wetness of the season. barley they move the earth once or twice, as opportunity permits, fowing their land generally in September, but always after the first rain subsequent to the wheat harvest, and receive from thirty to forty fanegas of grain on a fanega of land, or, in other words, from fifteen to twenty for one upon their feed, because a fanega is that quantity of good land, on which they fow one fanega of wheat or two of barley.

A fanega of corn is here three thousand three hundred and twelve solid inches, and weighs a quintal, that is, one hundred pounds Spanish, or one hundred and two pounds and three quarters avoirdupois; and among the merchants five fanegas and a quarter are reckoned equal to eight Winchester bushels of

two thousand one hundred and seventy-eight folid inches; but upon a rough calculation, two fanegas of grain may be reckoned equal to three bushels, and one fanega of land may be considered as three quarters of an acre.

For their fallow crop they often fow barilla, and get from ten to twelve quintals on a fanega; but if, for want of rain, they are disappointed in the proper season for wheat they sow that land likewise with barilla; and supposing the market price to be forty reals the quintal, it is found more profitable than a good crop of wheat. The average price is considerably higher; but as the commodity rises and falls between wide extremes, it is sometimes fold for twenty, and at other times for a hundred and twenty reals the quintal.

They grind all their corn by wind-mills. I counted thirty near the city; and water is fo scarce, that M. Macdonel pays thirteen pounds a year only for the carriage of it for the service of his family.

The trees most common in the valley are, elms, poplars, olives, figs, pomegranates, mulberries, apricots, palms, palmitos, and the ginjolero. This last bears a little fruit resembling, both in fize and K 4 form,

form, the olive, but with a smaller kernel, and remarkable for sweetness. The leaf is something like the ash, but of a darker

green, with a shining surface.

The palmitos (Chamærops humilis) grow about two feet high, with leaves on a long stem spreading like a fan. They bear good dates in clusters, and the root is excellent, resembling the artichoke. Between each coat is a fine texture of fibres, like network, commonly used instead of hemp for charging and for cleaning guns.

I have remarked already, that the rock is schist covered with limestone; but in some places we find the silicious grit or sand stone, with shingle or smooth gravel and sea-shells; and at no great distance from the city is a mountain, from whence they obtain the gypsum used for plaster. The whole country abounds with saltpetre.

Of diseases, the most endemical are intermittent and putrid severs. These arise from the proximity of the extensive swamp already mentioned, containing many hundred acres, which might easily be drained, so as to produce the most luxuriant crops. In the year 1785, during the three autumnal months, they lost two thousand five hundred

persons,

persons, and the succeeding year two thoufand three hundred more; yet the Almojar remains undrained. Government, indeed, exerted its authority, but not in the most effectual manner, for the relief of the inhabitants.

When the report of this calamity had reached the court, an order was dispatched to the physicians, that no other medicine should be administered to the sick, than the samous one prescribed by Don Joseph Masdeval, and called by him his Opiate, of which the following is the formular:

R Sal absinth,

— Ammoniac optime depurati aā z i. Tartari Stibiati, termino clariori Tartari Emetici gr. xviij. triturentur per horæ quadrantem, deinde adde & optime misceantur Pulv. Cort. Peruv. 3 i.

Syr. absinth q. s. fiat Opiata.

Of this he gives one-fixth part every two hours, with one spoonful of the following mixture:

R Aq. viper 3 v.

Aq. benedict Rulandi termino clariori Vini Emetici 3 j.

Cremor Tartari pulv. 3 j. m.

With

With these medicines he interposes plenty of broth, and continues to use them till the patient is restored to health.

In a conversation I had with him at court, he informed me, that the common operation of these medicines was at first to act as an emetic or cathartic, often bringing away lumbrici; but being continued they relieved the stricture on the external surface of the body, promoted perspiration and acted sometimes as a diuretic. He assured me, that in the most desperate cases, the disease had given way at the end of sour days, after he had begun to administer his medicines; and he did me the honour to shew me a variety of attestations from medical men, in almost every part of Spain.

That I might have no doubt of the true nature of the disease, he related the usual symptoms, such as, in the beginning, a remarkable prostration of strength, with intense pain both of the head and of the back; intolerable thirst; the tongue soul, dry, black, chopped, and trembling, when protruded; pulse small, hard, quick, and intermitting; parotid glands swelled; urine limpid

limpid at first, but turbid in the progress of the disease; respiration dissicult; the white of the eyes become red; petechial spots on the arms and breast; hands trembling; watchfulness at first, sollowed by propensity to sleep perpetually without consciousness of having slept; delirium; noise in the ears, sollowed by deasness; involuntary tears; coldness of the extremities; quivering of the under lip; and, if

the patient were ill treated, death.

From this description, there could be no doubt of the disease; but, as to the operation of the medicines, that certainly will admit of some discussion. On the common principles of chemistry it is evident, that a double decomposition takes place, and that the tartar emetic is reduced to an inert calx. I must acknowledge, that when first I was informed of this curious medicine, I was inclined to think, that the tonic power of the bark enabled the stomach to bear this extraordinary quantity of tartar emetic, but on more mature confideration it feems clear, that, being decomposed, this active medicine has lost its efficacy; and I am confirmed in this idea by a fact

a fact related to me by Dr. Masdeval, when I had the honour to meet him at the Escu-He had prescribed this opiate to a monk, who was in the last stage of a typhus or putrid fever; but the nurse by mistake gave the whole quantity at once, thus administering eighteen grains of tartar emetic at one dose, yet without any other visible effect than abating the violence of all his fymptoms. I am therefore fatisfied, that the cleanfing of the alimentary canal must be attributed to the emetic wine, and that the operation of the famous opiate would be nearly the same either with or without the stibiated tartar, and must be ascribed wholly to the bark.

The physicians of Carthagena were willing to allow this medicine all the credit, which was due to it, and to prescribe no other whenever they should be convinced that this might be used with safety; but to be precluded in all cases from the use of other remedies, they thought, would be unreasonable. They therefore sent their remonstrances to court; but in answer, there came an express order from the king, that they should be subject to the intendant of

the dock-yard, and should prescribe according to his directions.

On the receipt of this mandate from the court, the intendant immediately affembled the physicians, and made known the royal pleasure, informing them, that in case of disobedience, the prisons were prepared, and the guards in waiting to execute his orders. They expostulated, but to little purpose; and being told that nothing short of absolute submission would be accepted, they consented to prescribe the opiate in all cases, and, to evince their sincerity, they signed a certificate, that no other medicine was so efficacious as this recommended by the king.

The people, however, were not so submissive to the royal mandate, and knowing that the physicians were engaged not to vary their prescriptions according to the exigency of the case and the variety of diseases by which they might be attacked; they absolutely resused to send for medical assistance, and resolved to take their chance for life or death. When therefore information was carried back to court, that the physicians were likely to be starved, and the people

to die for want of their advice; the minister relented, and agreed to compromife the matter, leaving the fons of Æsculapius at liberty to follow their own judgment for the citizens at large, and compelling them to administer no other medicine, beside the opiate, to all the patients in the royal hospital.

This perhaps is the first instance of despotic power controlling the functions of physicians, and prescribing uniformity to that class of citizens in the line of their profession.

The municipal government of Carthagena is in a military governor, with his alcalde mayor; thirty regidores, whose office passes by inheritance, if not previously fold; and two fyndics, chosen by the people as their peculiar guardians.

The governor is the supreme and independent judge for the army, and for strangers fettled in the country, whilft his alcalde prefides in the tribunal for the citizens.

Nothing can be more vicious than this form of government by hereditary regidores, who may here be called the thirty tyrants: yet to render the yoke still more intolerable, the escrivanos del numero succeed likewife by inheritance, and may even fell their office

office in shares, to be served by a deputy. Although the syndics, like the Roman tribunes, are chosen by the people, it is under the influence of the regidores; and as they are appointed only for a year, they dare not exert themselves in the discharge of their duty towards their fellow-citizens.

It is reported, that in consequence of this vicious fystem, both the regidores and escrivanos are constantly intent on plunder. Certain it is, that many fources of peculation are open to the former, beside the one already mentioned, in fetting a value on provisions; but the principal, and those, most generally noticed, are, creating new offices for themselves or their dependants, with more than ample falaries, and distributing among themselves large sums under pretence of destroying locusts, where few or none are to be found; after which they make false reports to government, and procure fuch vouchers for their watchfulness. activity, and zeal, that they obtain high encomiums when they deferve the most fevere reproof. Not long fince, they expended three hundred thousand reals, or about three thousand pounds, and then levied vied the whole by an arbitrio or tax on the inhabitants, although no one could imagine, what part of the adjacent country had been infested by the locust. To complain of these abuses would be dangerous; and to fuch an extent is the venality increased, that every citizen is anxious to fecure the favour and protection of a regidor, as the only means of fafety for his person and his property. This circumstance is sufficient to evince the viciousness of government, and the mal-administration of the laws; for wherever patrons with their clients are to be found, we may be certain that the laws are weak, and that violence hath usurped the throne of equity.

In consequence of this want of energy in government, murders and affaffinations are frequent in Carthagena, and for many years not one offender has been punished for these crimes, because the most atrocious villain, unless miserably poor, may find refuge in the rapacity of the escrivanos.

Want of fidelity to matrimonial vows is equally prevalent at Carthagena, as in the

other provinces of Spain.

It was here that a gentlemen one morning said gravely to his friend, "Before I go to rest this night, the whole city will be thrown into consusion." This he himself occasioned by going home an hour before his usual time, to the no small vexation of his wife and of her cortejo, whose precipitate retreat, and unexpected arrival in his own house, occasioned the like consusion there; and thus by successive and similar operations, was literally suffilled the prediction of the morning.

I have already traced the corruption of morals to one grand fource, the celibacy of the clergy; but here it must be observed, that this operates only as a pre-disposing cause; whilst the occasional cause, by the acknowledgment of those, who are most competent to judge, must be sought for in the introduction of Italian manners on the arrival of Charles III. from Naples, with the previous want of reasonable freedom in the commerce of the sexes.

If in addition to these I might venture to assign another cause for this universal depravity of morals, I should seek for it in the want of admonition; because the secular Vol. III. L clergy

clergy feldom, if ever, preach. The monks indeed descant upon the virtues of their patron faint; or labour to extol fome favourite señora, and to set up altar against altar; but they feldom appear folicitous to improve the morals of the people; and excepting during Lent, they do not often exhort the people to repentance. contemptible effusions have been justly ridiculed by a Spanish author, who, in point of wit and humour, has had few fuperiors; and all who have read his entertaining history of the famous preacher, Fray Gerundio, will acknowledge the justness of his cenfure. Had not this work been most abfurdly condemned by the inquisition, the fame reformation might have been effected in their pulpit eloquence, as was happily produced in England by a fimilar performance of our Echard, entitled, " Grounds and Occasions of the Contempt of the Clergy."

Such has been the poverty of Spain in point of pulpit orators, that neither monk nor ecclefiastic, among all with whom I conversed, could recommend one author, as worthy to be noticed; and even in the present

present day, if a preacher of more than common abilities appears, he is admired as a prodigy, and almost worshipped as a faint.

Precifely such was a famous capuchin, Father Diego, of Cadiz, who vifited Carthagena, whilst I was there, and every evening preached in the great square to more than ten thousand people. Many of his admirers affembled early in the morning to fecure good places, but as he did not begin till after fix, the magistrates gave orders that no one should be allowed to take a feat till two in the afternoon; yet finding the tumult and confusion, the broken chairs and broken heads, thereby increased, they permitted every one to use his own discretion, and consequently, some more zealous than the rest, again took their stations soon after sun-rise.

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The good father is learned, eloquent, and modest; and although the vulgar afferibe to him a variety of miracles, he disclaims all such pretensions.

This man, licensed by the bishop, and protected by the magistrates, was constantly attended by a guard, to prevent his clothes

L 2 from

from being torn from his back for relics. What he spoke was heard with the most profound attention; and after one discourse on the forgiveness of injuries, many were reconciled, and became good friends, who had been before at enmity. One fermon, however, had a pernicious tendency; yet fo deeply is a fense of honour, of gratitude, and of filial piety impressed on the human heart, that few appeared to relish his doctrine, or to be convinced by his arguments; but most of his hearers seemed to shudder with abhorrence, when he endeavoured to persuade them, that in cases of herefy, they were in duty bound to accuse, at the tribunal of the inquisition, their nearest and their dearest friends.

Before I left the city I enquired into the price of beef and mutton; the former was fold for twelve, and the latter for thirteen quartos the pound of fixteen ounces.

A quarto is one farthing and an eighth English.

JOURNEY

FROM

CARTHAGENA TO ALICANT.

ON Tuesday, May 15, at seven in the morning, I took leave of my obliging friends, and set out for Murcia in a calasine; and traversing the vale by which I had entered Carthagena; at the distance of sour leagues, I came, about noon, to the Venta de Jimenao. After dinner, in about three hours, we left the valley, and ascended by a beautiful new road among the mountains, most of which are cultivated to their very summits.

The reason of this high cultivation, and of the extraordinary sertility of the vale, from which we had ascended, appears to be the constant mouldering of the high and tender schistous rocks, by which the soil is renovated

L 3

and

and fed unremittingly with a rich and loamy clay.

By cutting through the hills to make the road, they have discovered vast strata of shingle or smooth gravel, of white quartz, of limestone, and of silicious grit.

As we ascended, we met two waggons loaded with garlic, and my guide assured me, that what I saw was the weekly supply for Carthagena.

In descending towards Murcia, I took notice of one monumental cross, and by the inscription, it appeared that a traveller had, three years before, been robbed and murdered there.

The vale of Murcia is equally rich, and rich from the same cause as that of Carthagena; but it certainly exceeds in beauty every thing I had seen in Spain. The soil is a rich loam, well watered; and the wide expanse appears like a well cultivated garden. Oranges and lemons, olives and mulberries abound; and the whole valley swarms with such multitudes of men, all active and usefully engaged, that they resemble bees, when employed in collecting honey, or returning loaded to the hive. Be-

ing dreffed in white they are the more confpicuous. They have only a linen waistcoat, and short trousers.

As we approached the city, one of the corfarios, or common carriers, who accompanied us all the way, had the misfortune to break a basket committed to his care, and thereby the greater misfortune of difcovering the contents. After this accident I observed him pensive, and evidently faw, that although tempted, he at first resisted his inclination. At length he took one cake, closed the basket, and turned away his eyes; but by degrees he seemed to get the better of his scruples, and before we reached the city, he had almost cleared the whole. Had he met with the temptation fooner, I am inclined to think that not one cake would have arrived at the place of its deftination. I smiled at his simplicity, and purfuing my reflections on the various temptations incident to human frailty, I arrived at this conclusion, that ignorance of evil is the best guardian of our innocence.

The entrance to Murcia is by a straight and spacious avenue, well planted, and well watered; to the right and to the left of

L 4 which

which the land, with water in abundance, produces the most luxuriant crops.

The city is divided into eleven parishes, with a cathedral; and contains, by the last returns to government, fifteen thousand families. It has nine convents for nuns, and ten for friars.

As foon as I arrived, I hastened to the cathedral, whose lofty tower had, from a great distance, attracted my attention. The front is elegant, with fixteen marble columns of the Corinthian order, and thirty-two images as large as life. One of the most striking features about this edifice, is a chapel of the Marquis de los Veles, an hexagon, covered with a dome, in the Gothic taste, which is both light and elegant. Round this chapel is a stone chain curiously wrought.

I was much disappointed, when I entered the cathedral, to find the interior of it so little correspondent to the expectations excited by the beauty of its front. Indeed there is nothing in it remarkable, beside the pictures and the jewels.

Of two filver altars, one is plain; the other, for high festivals, is more ornamented,

mented. One custodia of filver, for the elevation of the hoft, or confecrated wafer. weighs nearly fix quintals and an half, that is, fomething less than fix hundred weight; another contains eight pounds and four ounces of the purest gold, with fix hundred emeralds, and many valuable diamonds. One veffel somewhat similar, only used for preserving the consecrated wafers, and called el copon, has five pounds of gold, befide many brilliants of confiderable value. On the right-hand of the altar is a massive urn of filver, four feet long, two and a half wide, and four feet high, containing the ashes of the two bishops, Fulgentius and Florentinus. Over this, a little chest of gold and filver, highly wrought, contains one hair taken from the beard of Christ, and fent from Rome by Cardinal Velluga, who was bishop of this diocese.

It would be endless to enumerate all the jewels belonging to this church, forming a mass of treasure, which, if in circulation, would animate the general industry, and be productive of new treasures to the country, as far as its influence could extend.

The facrifty allotted for the reception

of this wealth, is in the centre of a vast tower, constructed like that of Seville, but at present not quite so high. When sinished it will be more losty by ten seet than that samous edifice. As you ascend, not by steps, but by inclined planes, you go round the sanctuary, a spacious apartment destined as a refuge for assassins, where they may be equally secure both from the sword of justice, and from the dagger of revenge.

In this voluntary prison I saw two murderers, who had each his bed. They attended me up the tower, and appeared happy to converse; but I had so little expectation of hearing truth, that I did not urge them to relate the circumstances, which brought them to that melancholy dwelling.

From the top of this high tower you have a delightful prospect, commanding all the valley, with the circumjacent mountains. From hence you look down upon the city, every way surrounding the cathedral, and itself placed nearly in the centre of the vale; the dimensions of which, extending east and west, are nearly six leagues,

and two leagues from north to fouth. It is bounded on the fouth by the chain of mountains over which we had passed, and by which it is separated from the vale of Carthagena. To the east it communicates by a small opening of about a league, with the vale of Orihuela and the sea. To the north-west are hills, and beyond these, high mountains bounding the distant view.

The cathedral is built with freestone, distinguished by the name of Pisolite, because it appears to be composed of shells in small fragments, with round globulæ, refembling the spawn of fish. It contains likewise many bivalves and anomiæ intire.

Of convents, the largest is that of the Cordeliers, but the prettiest is the one allotted to the nuns called las Capuchinas.

I was exceedingly struck with the bridge over the Segura; magnificent in itself; and delightful for the prospect it commands of the river, the city, the vale, and the distant mountains, all in the most pleasing points of view.

This river being often overflowed during the rainy feafon, the city would have been long fince swept away, had it not been for a strong a strong dike, twenty seet wide, and as many high, by which it is protected. This dike, projected merely for the safety of the city, being extended many miles up into the country, affords a pleasant walk to the inhabitants; and as they have fixed here the sacred stations, it serves likewise the purpose of devotion. I have already explained the nature of these stations, when describing the convent of the Franciscans at Seville.

No one, who has lived always in a temperate climate, can conceive how much a traveller fuffers from the flies, when he paffes the fummer in the fouthern provinces of Spain. But of all the cities through which I passed, not one appears to be molested with such swarms of those teasing It is here, therefore, insects as Murcia. that a man may fully comprehend why Beelzebub, god of the flies, should become the title of a being who is held in supreme detestation by the human race. To difperfe them, in fome houses, they have a large fan, fuspended over the dining table, and kept constantly in motion; in others, one of the domestics is unremittingly engaged

gaged in waving the bough of a tree all the time the company is eating; but the great, have a fervant at their elbow, whose sole employment is, with a napkin, to keep off the flies.

My stay was short in Murcia. This city, with its environs, is highly interesting; but unfortunately, not finding the letter of recommendation to the principal person in his native city, with which Count Florida Blanca had favoured me; I too hastily concluded that the custom-house officers at Cadiz had loft it, when they examined my portmanteau, and took from me all my I had afterwards the mortification to discover, that they had placed it among my letters to Valencia; but it was then too late to profit by the discovery. Disgusted with the filth and miserable accommodations of the posada, and having no other recommendation to any person resident in Murcia, after having passed one night in it, I resolved to quit the city.

The posadero, who, like most of the innkeepers in this part of Spain, is a gipsy, asfured me, that he paid thirty reals, that is, six shillings a day for rent, and seven hundred hundred and fifty reals a year for alcavala; yet among all the wretched ventas and po-fadas I had feen, this appeared one of the most wretched.

His composition for the alcavala is very low, because every arroba of oil, paying five reals, and the pound of butcher's meat three quartos, supposing his consumption to bear any proportion to his rent, the amount must be considerably more than seven pounds ten shillings per annum.

Notwithstanding these heavy duties, beef sells for eleven quartos, or a trisle more than three-pence the pound of sixteen ounces; mutton for thirteen quartos; pork is worth sisteen; kid sixteen; bread, if very white, four quartos.

On Wednesday, May 16, at three in the afternoon, I placed myself in my calasine, and proceeding by the river side, took the road for Alicant.

To the left is an old castle on the summit of a high calcarious rock, which is insulated, pointed like a sugar loaf, and charged with extraneous fossils.

All the crops, fuch as wheat, barley, oats, peas, flax, hemp, with alfalfa (medicago

cago sativa) appear luxuriant, and the trees are full of verdure. These are chiefly the elm, the poplar, the willow, the cypress, oranges, lemons, sigs, mulberries, palms, medlars, quinces, and pomegranates. In short, the whole valley is one continued garden.

I took notice that all the ovens are separate from the cottages, and are covered with earth to retain the heat.

Early in the evening we arrived at Oribuela, four leagues from Murcia. It is a rich and thriving city, built on each fide of the Segura, and contains twenty one thoufand fouls, with thirteen convents, and a feminary for two hundred students, established here, A. D. 1555.

The cathedral is antiquated, and little worthy of attention; but the parish church of S. Augusta is elegant; and that of the Augustin friars will, when it is finished, be a valuable acquisition to the city.

In the neighbourhood are established some good saltpetre works for government.

Water in the whole of this valley is fo abundant,

abundant, that the crops have no dependance on the rain: hence the proverb,

Llueva o no llueva, Trigo en Orihuela.

From this city we passed along the valley, with the river on our right, and high mountains to our lest, through vast plantations of mulberry trees. Here, the liquorice appears as a noxious weed, spreading over the whole country; because the soil, being deep, is peculiarly suited to its growth; and the warm sun, with plenty of water, makes all vegetables shoot with peculiar vigour.

The rock is calcarious.

Leaving this extensive plain, with the Segura on the right, we turned up a little vale of communication to the left, and passing between high rocks, at the end of about a mile, we entered the rich vale of Punda. This, with many corresponding vallies, all run from east to west, agreeable to the general direction of mountains and vales in Spain, and near the sea communicate with the vale of Orihuela.

On the mountains we observed some monumental crosses.

The

The dress of the peasants consists of a waistcoat, trousers, stockings, all white; esparto sandals, a coloured sash, and a close black bonnet.

At the distance of two leagues we came to Alvatera, a miserable village, with a magnificent church, belonging to the Marquis of Dos Aguas. The country produces chiefly vines and olives. As we advanced we met a travelling flock going to feed upon the mountains. At the meeting of four roads we took notice of a high pole, with an iron hook, supporting one quarter of a man. The other quarters were suspended in the principal places where this wretch had been guilty of robbery and murder.

In the bottoms, the wheat crops appear heavy, and bowing for the fickle; and the barley is collected round the areas ready to be trodden by the cattle.

All the roads are here in a state of nature; but were the rich soil of clay and loam removed, a sirm bed of gravel would be uncovered, and the roads for many generations would want no repairs.

At the distance of about a mile from Elche, passing the wide bed of a torrent, Vol. III. M then

then dry, at the entrance of an extensive grove of olives, I observed three poles, similar to the one I had remarked before, each with the quarter of a man, being the monuments of as many robberries, accompanied with murder.

Elche, Ilici of the Romans, might with propriety be called the City of Dates, for it is every way furrounded by plantations of palm-trees. These, about the month of May, are loaded with fruit in pendant clusters, which, forming a complete circle, resemble, when ripe, a crown of gold, with a plume of feathers rifing from its centre. Each cluster to appearance would nearly fill a bushel, and is said to weigh from fix to ten arrobas. There is a remarkable variety in this fruit, both as to the tafte and colour. Some dates are green when ripe, but most commonly they are yellow, and not unfrequently of a dark brown. Some are fweet, others are inclined to acidity. The male trees produce only flowers, the females bear the fruit.

Elche is divided into three parishes, and contains, according to the last government returns, seventeen thousand four hundred and

and three fouls, of which eight thousand fix hundred and fifty-feven are males, and eight thousand seven hundred and forty-fix females: but the widows are seven hundred and fifty-one, and the widowers three hundred. They have twenty knights, eighteen advocates, twelve escrivanos, thirteen inquifitors, and three convents, two for monks, the other for nuns. The great church is a beautiful building, with a majestic dome, and is elegantly fitted up. For the fervice of the altar it has two curates, a vicar, four doctors, and many chaplains. It is built with fand-stone; but as the natural cement is weak, the stone moulders away and cracks.

This city belongs to the Duke of Arcos, now Count of Altamira. It is governed by his corregidor, four regidors, as many deputies from the commons, two alcaldes, and one alguazil mayor. The ducal palace is fituated on the brink of a deep ravin, and carries the marks of the most remote antiquity. It was recovered from the Moors by Peter surnamed the Cruel, A. D. 1363.

They have no beef. Mutton is fold for M 2 thirty-

thirty-two quartos the pound of thirtyfix ounces; lamb for twenty three; pork for thirty-fix; wheaten bread is worth five quartos and a half the pound of eighteen ounces, and barley bread two quartos.

Leaving Elche, and passing through considerable plantations of olive-trees, interspersed with algarrobos; when the prospect opens, you have the sea on your right-hand, at the distance of about a league; on your lest you see the distant mountains fading on the sight, and sinking in the horizon; whilst at the distance of sour leagues in front you command the high fort of Alicant.

As you approach towards the city, the country is wild and broken, discovering a sandy rock; but having descended nearly to the level of the sea, you find a rich soil, and luxuriant crops of corn, with extensive plantations of the almond.

In all the fouthern provinces of Spain, especially in this vicinity, you see numerous fountains and reservoirs of water covered with arches, all, though perhaps unjustly, attributed to the patient industry of

the Morifcos; when, with equal probability of truth, they might be ascribed to the Romans, to the Carthaginians, or to the more ancient inhabitants of the peninsula.

I was much entertained in this short journey with the superstition of my guide; a species of superstition not confined to him, because I found it equally in all the coachmen and common carriers with whom I had afterwards occasion to converse upon the subject. They carry constantly about with them the paw of a mole, to secure their mules and horses against the mal de ojos. This I at first conceived to be the diseases of the eye; but upon a more accurate inquiry, I found myself mistaken, and discovered that this expression meant, the evil influence of witchcraft, conveyed by looks. In the fouthern provinces of Spain, like as formerly in England, and even now in Cornwall, children and the common people univerfally agree in attributing necromantic powers to the female in each village who is the most deformed in person, the most decrepit with old age, and the most haggard in her looks. In Cornwall it is needful for

M 3

the

the witch thrice to repeat, " I wish;" but in Spain one look conveys the fatal influence; and the object, unless relieved by a fuperior power, may droop and die. The proper amulets are the paw of a mole carried in the pocket, a bit of fearlet cloth worn by men, or the manefita fastened on the wrist of children. The manesita is a little band of jet, ivory, glafs, or stones, fet in filver, with the thumb thrust out between the middle fingers. But for want of these, a person apprehending danger may readily defend himself by the same position of his thumb. For this reason, whenever the fond mother observes an ugly hag looking steadfastly upon her child, she screams out, festa una figa, that is, thrust out the thumb in token of defiance. This kind of fuperstition is by no means novel. We trace it distinctly in the Romans,

Ecce avia, aut metuens divum matertera cunis Exemit puerum, frontemque atque uda labella Infami digito, & lustralibus ante salivis Expiat, urentes occulos inhibere perita.

Persii Satyra, II. 31-34.

In this little journey I took notice of a new establishment, which does much honour to Count Florida Blanca, as contributing

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buting not only to the ease and comfort of the traveller, but to the safety of his perfon. Government is engaged in raising, at the distance of every league, a little cottage, with a suitable garden, as the habitation of a peon caminero, who is to receive five reals a day for repairing the highways, and for protecting passengers. For this purpose he is furnished with all proper implements and arms. This institution will be made general through all the provinces.

ALICANT.

A LICANT is situated at the bottom of a bay, formed by the capes of La Huerta and San Pablo. It is protected by a castle, built on the summit of a mountain, to which, when attacked by enemies, the citizens have been taught to look up with considence; but, in the present day, it is rather the object of their terror, because large portions of the rock, shattered exceedingly, overhang their base, and threaten a part of the city with destruction.

The streets are narrow, and were exceedingly ill paved; but now, indebted to the indefatigable zeal of the governor, don Francisco Pacheco, sew towns can boast of superior neatness; and by the well directed labours of one man, this city, formerly in every sense a most delightful residence.

I 169 1

By the last returns to government it appears, that the inhabitants are seventeen thousand three hundred and forty-sive. Of these, eight thousand five hundred and twenty-sour are males, eight thousand eight hundred and twenty-one semales; the unmarried men and boys, four thousand nine hundred and sixty-six; the unmarried women and girls, four thousand five hundred and seventy-six; but the widows, nine hundred and thirty-seven, whilst the widowers are only three hundred and forty-one. Divided according to their age, there appears to be:

males	3
•	2,865
-	3,144
-	2,870
-	3,782
-	2,033
-	2,651
	males - - - - -

Total, 17,345

The clergy are fifty-fix, including those, who in four parishes have the cure of souls, with others who are ordained either to ecclesiastical

clefiastical benefices, or on their private patrimony; this being equal to three reals a day, that is, to about eleven pounds sterling

per annum.

Of the feculars, fixty-four are knights, twenty-eight advocates, thirty-one escrivanos, two hundred and ninety-four fludents, nine hundred and feventy-four farmers, two thousand three hundred and one day-labourers; the merchants and shopkeepers are three hundred and thirteen; the manufacturers, eleven; the artifans, one shouland three hundred and ninety-two; the fervants, fix hundred and thirty. Befide these, eight convents contain about two hundred and fifty persons under vows.

The equivalent, in lieu of provincial rents, purveyance, and the royal monopolies of brandy and falt, for this city, with the villages of its vicinity, is five hundred and thirty-nine thousand three hundred and fixty-one reals, or somewhat less than five thousand four hundred pounds. Now, as the whole district, or corregimiento, of Alicant contains, according to the government returns, thirty-three thousand and forty-five fouls, the proportion of this tax is not more than fixteen reals, or about three

shillings

shillings and two pence for each inhabitant

to pay.

Neither the churches, nor any of the convents, are worthy to be noticed. In the great church, indeed, I was much amused, but not with the architecture, nor yet with any of the altars; for that which caught my attention was a grant from the college of cardinals, sanctioned by the archbishop and the bishop, of two thousand five hundred and eighty days indulgence to any penitent who shall say before the altar of the Virgin, Ave Maria purissima, and as many to all who, hearing this, shall answer, Sin peccado Concebida.

For the service of the great church they have ten canons, three dignitaries, and two beneficed clergy; but these are reckoned poor. The bishop's seat is at Orihuela, where the canons have a more ample provision made for them.

The commerce of Alicant is confiderable. From five hundred to a thousand vessels enter annually this port, of which the major part are Catalan. In the year 1782, there entered nine hundred and fixty-one. The principal articles of export are,

Anise

Anise seeds, from three to four thousand quintals.

Almonds, from eight to ten thousand quintals.

Barrilla, from fixty to ninety thousand quintals.

Brandy, about a hundred thousand pipes.

Cumin, from two thousand to two thoufand five hundred quintals.

Esparto rush, and the same in ropes and mats, the quantity uncertain.

Figs, about a thousand quintals.

Fish, uncertain quantities.

Grana sylvestre, called also vermillion, about three hundred quintals.

Lead ore, uncertain quantities.

Liquorice in root.

Lavender flowers, both to England and to Holland.

Lemon juice.

Pomegranate peel.

Raisins, from fixty to a hundred thoufand quintals.

Salt, about a hundred thousand tons,

Saffron,

Silk, and

Vinegar, all uncertain in their quantities.

Wine,

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Wine, about two hundred tons.
Wool, from three to four thousand quintals.

The value of our commerce with Alicant and its dependencies will appear from the following statement of the years 1784 and 1785, given to me by the English conful.

Exports to GREAT BRITAIN, and Imports. 1784. ALICANT.

	-	1	74]		
Value Rerling	24.87	3,380	1,575	1, &c. 2,000	19,945	\$42.81.9
Value	quin-	•		, &cc		3
	55,800		ditto	iron, copper, tin, &		
Imports.	Alicant, Newfoundland fifth, 55,800 quin-	Valencia, ditto, 5,200 ditto	Shetland lyng, 1,500 ditto.	Manufactures, iron, copper, tin, &c. 2,000	Valencia, ditto, and ditto,	•
	Newfou	ditto, 5		Manufa	ditto, a	3,932.
Ports.	Alicant,	Valencia,	•		Valencia,	Tonnage, 3,932.
Value.	- 40,562 10	4,300	3,900	£. 89,344 10		
Exports	Barrilla, 7,375 bales - 40,562 Raifins, 146,560 balkets - 40,204	Brandy, 430 pipes	Salt, 630 tons,	Tonnage, 7100. by computation, £. 89,344 10		
	Barr		Salt	7100.		
Ports.	Alicant,	Murviedro,	La Matta,	Tonnage,		

Imports. 1785. Newfoundland fifth, 45,000 quin- £.	tals, 30,375	ierces		Woollen, 3,780	
£. Alicant, N	39,000 Valencia, d	Denia, Alicant,			Tonnage, 3,824.
5.		Alicant, Wine and fruits, 1	712 £.65		

Barrilla is a confiderable article of commerce, and till the year 1780, was confined chiefly to this port; but fince the duties have been raised from one hundred and fourteen maravedis and three quarters the quintal to four hundred and forty-two, being the same that was previously imposed by government at Carthagena, the trade has been more The present duties on the equally divided. quintal of one hundred and fourteen pounds avoirdupois are as follow: royal duty, four hundred and forty-two maravedis; alcavala, thirty-five and two-thirds; brokerage and confular duty, twelve; in all about two shillings and ten pence.

Whilst the duty on the export of Barrilla was little more than three reals the quintal, the Spanish government exacted twenty-four for soap; in consequence of which, the oil and pot-ash were carried to Marseilles, and made into soap, for the service both of Spain and of her colonies. (Vide Campo-

manes, E. P. part iv. p. 249.)

Brokerage is a duty of a quarter per cent. on all commodities imported and exported, paid by the merchants to the marquis of Paralis.

Paralis, as a compensation for the privilege of naming their own brokers; because the marquis claims the nomination under a grant from the king, to whom he had lent thirty thousand dollars, a sum equal to sour thousand five hundred pounds; but to avoid the consequences of this oppressive grant, they agree to pay him the interest of a hundred thousand dollars.

Of the Esparto rush, M. Condom exports annually about three hundred tons from this port for Marseilles, and about sourscore cargoes, each from fifty to a hundred tons, for Genoa, Venice, and the Levant. With the raw material he is bound to send out one-third manusactured; but this part of his agreement may be, without much difficulty, eluded.

It is curious to observe the expedition and facility with which the women and children spin the esparto thread. After having soaked the rush in water, and beat it sufficiently, they, without either wheel or spindle, contrive to twist two threads at the same time. This they do by rubbing them between the palms of their hands, in the same manner as the shoemaker forms a Vol. III.

that one motion gives the twist to each thread, and at the same time unites them. To keep the ends asunder, the thumb of the right hand is interposed between them, and when that is wanted for other purposes, the left thumb supplies its place. Two threads being thus twisted into one, of the bigness of a large crow-quill, forty-six yards are sold for a quarto, or about a farthing and a small fraction of a farthing, and of this the materials are worth about one-fifth.

I was no less struck to see the address and dispatch with which the soft-wood turners, at Alicant, execute their work. They sit on a low stage, above which the two poppet heads and points are raised six inches, and instead of a pole and treddle they use a bow. To this they give motion with the right hand. The lest hand holds the tool, which they guide by the constant application of the right foot, whilst the lest foot keeps the moveable poppet and point close up to the work. Such a position must be exceedingly uneasy, till custom and long habit have reconciled them to it.

The

The Grana Sylvestre is not as yet a confiderable article of commerce: it is only a few years since it was introduced. Guixona, a town about five leagues from Alicant, sends annually a number of people over all the mountains of Granada and part of Andalusia to collect it; but hitherto with no remarkable success.

Saffron of late has been in much request for a foreign market, and is collected from the vicinity of Albazete, about one hundred and twenty-five leagues from Alicant, where it is produced in considerable quantities. It is worth from fifty-five to sixty-five reals per pound, and pays on exportation, for all duties, two hundred and seven maravedis, or about sources the pound of sixteen ounces.

At Alicant the *fishery* is free from all kinds of duty; and, as a further encouragement, a tax of ten per cent. befide four hundred and eighty maravedis, by way of principal duty and millones, is laid on all foreign fish.

The dog-fish might be rendered valuable, were it not for the spirit of monopoly, and the contracted views of government.

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It is good to eat, and yields about five-andtwenty pounds of oil. Befide the flesh and oil, the skin alone was usually sold for twenty reals, whilst the ports were open; but now that the exportation is prohibited, the price is sunk to eight reals, and the sishery is thereby considerably injured.

In this province, the privilege of fishing is confined to the enrolled seamen, who are

about fixteen thousand.

With fuch a nursery for sailors in the Mediterranean, and with one similar to it in the bay of Biscay, where peculiar privileges are granted for that purpose, Spain will soon be formidable as a naval power. The Catalans already supply Alicant with pilchards, taken on the coast of Galicia; whereas formerly this city imported annually from England about sifty cargoes.

The municipal government of this city is in eight regidors, of which, four are noble, and four commoners; these are all considered as possessing a freehold, descending by inheritance to their children, yet not entailed upon them and therefore saleable. They have four assessor, chosen by the commons, who continue in office two years, but two are annu-

ally changed. To these are added two syndics, of which one, the personero, is to represent the grievances of the commons; but neither of these have votes. The usual president of this court is the governor, or, in his absence, the alcalde mayor, who resembles our recorders. In the corporation are included three physicians and two surgeons, who have salaries.

The attendants of the court are, proctors, advocates, escrivanos, and alguazils.

To keep good order in the various quarters of the city, they have alcaldes de barrio. These formerly purchased their office, and contrived to repay themselves with interest; but the present governor makes a new election every year, with this exception, that he continues those, who are distinguished for fidelity,

The escrivanos reales are merely notaries: the escrivanos del numero, to the number of twenty-three, may be called pettysoggers; against these the governor declares a neverceasing war; but the contest is unequal. He attempted to restrain their influence by the introduction of viva voce evidence; but this attack they effectually resisted. Hav-

N 3

ing detected five of them in some malepractices, he fent them to prison, and at the fame time gave notice, that the next offender should visit Africa. He complained to me one day in the most feeling manner, of the diffress he felt in being daily witness to abuses, which he was not able to correct, because these wretches can never be convicted, unless upon evidence taken by an escrivano. He lamented that, even when he knew the evidence produced was false, he was bound to give judgment agreeable to it, and could contrive no redrefs. Yet one point he carried, in not fuffering them, as usual, to make a long and expensive process of a trifling matter.

In their turn they do all they can to harass and perplex him. The corporation
having made their agreement with one contractor to supply the citizens with meat,
this man caused his cattle to be driven
through the city in the middle of the day.
The governor remonstrated in vain. Hearing, however, repeated complaints of mischief, and seeing the people, distracted in
their attention, following in crowds, as
usual, wherever any thing like a bull, their

favourite animal, appeared; he interposed his authority, and absolutely forbad the admittance of oxen after a certain hour in the morning. The contractor, on this restraint, refused to supply the city, and, urged forwards by the Escrivanos, appealed to the intendant of the province. In consequence of this appeal the governor could find no refuge, but in the direct interference of the minister; and had his friends been less powerful at court, he must have given way.

Previous to the appointment of Don Francisco Pacheco to the government of Alicant, the city swarmed all day with beggars, all night with prostitutes and thieves. These were fed by the religious houses, by the ecclesiastics, and by the alms of well-disposed yet mistaken citizens. The governor faw in a proper light both the cause and the consequences of this abundance of unprofitable subjects, and therefore determined to confine them; yet he knew that prejudice would run strong against him. For this reason he engaged the most popular preachers, during Lent, to expatiate on the merit of giving to the N 4

poor, and afterwards to explain the propriety of making a distinction in the distribution of their alms, so as not offer a premium to laziness, prodigality, and vice.

When he had thus prepared his way, he affembled the citizens, laid his plans before them, and formed a fociety, confisting of two hundred and fifty of the first people in the diocese, with the bishop, canons, and principal nobility at their head, under the denomination of "Brethren of the Poor." From these were elected governors and guardians for the House of Mercy, and for the twelve quarters, into which the city is divided for the purpose of taking an exact account of all the inhabitants with their age and occupation. Every guardian, in his feveral quarter, has three affiftants to examine with him the condition of the poor, and to distribute the relief appointed by the governors the preceding week, whether in money, in raw materials, in medicine, or in aliments, agreeable to the report which has been made to them.

In the House of Mercy, children, instructed in the most common and therefore the most useful manufactures, are trained to

industry,

industry, and the lazy are compelled to work.

They have no other fource of revenue beside the produce of their labour, and the voluntary contribution of the citizens.

This institution bears date only the 30th of June, 1786, and in May, 1787, they had expended fix hundred and twenty-nine pounds for the support of about one hundred men, women, and children. These are well fed, and do little work at present; but, when they shall have been reconciled to the idea of confinement, their diet will be administered with a more sparing hand, and their labour will be rendered more productive.

They have here another institution, likely to be of extensive utility in providing for orphans, for deserted children, and for the sons of soldiers, who are burthened with numerous families. It is a military academy, in which they are taught reading, writing, and accounts, the manual exercise, and every thing needful to qualify them for serjeants. Don Francisco Pacheco had the goodness to review for me a little regiment of these, who went through all their

their evolutions, and gave their fire with wonderful address. The whole number in the kingdom is two thousand, from whom will be selected all the serjeants for the army.

Under the same protection, I had the happiness of seeing a review of the artillery, with prizes distributed to the engineers, who were most distinguished for their skill. Much attention is paid to their education, not only at Alicant, but all over the peninsula.

The military establishments of every kind appear respectable, and mark at once wisdom and humanity in all their regulations. The soldiers are enlisted for eight years, during which they are frequently indulged with furloughs. When they have served fifteen years, their pay goes on constantly increasing, and after thirty-five years, they retire with the rank of commissioned officers, and a pension of about twenty pounds a year.

Among the numerous objects attracting the attention of a stranger, none was more interesting to me than the Castle, with the rock on which it stands, and that for various

various reasons. As an Englishman, I was curious to examine a fortress so bravely, or rather fo rashly, defended by its governor in the year 1707, more especially the chasm left by the fpringing of a mine, which proved fatal to General Richards, with twenty of his officers. When the Spaniards had nearly finished their work, they gave warning to the garrison; and when they had lodged in it thirteen hundred barrels of powder, they generously permitted the English general to send his engineers, who viewed the mine, with its contents. These reported, that the burthen was too great for the quantity of powder, and that the garrison was fafe.

On the day appointed for the springing of this mine, people from every part of the country assembled on the opposite hill, to view the catastrophe; and notice of the fatal moment was given to the garrison. Precisely at that moment the officers, engaged in drinking, and somewhat elated by their wine, declared their resolution not to quit the battery, till they had drank two bottles more, for which they had sent a servant; but no sooner had he

turned his back, than the battery, together with general Richards, and twenty gallant officers, mounted in the air.

By the chasm, it may be readily imagined how great must have been the burthen; but when I had observed the shattered condition, and loose-jointed nature of the rock, it became evident, that the engineers of the besieged were either ignorant or rash in the extreme.

This fortress might have been battered to pieces from Mount St. Julian; but the besiegers preferred a mine.

In fcrambling among the rocks, I observed a track, very strongly marked, leading to a part of the fort, in which the walls are low. This being at once the steepest and most rugged side of the mountain, where I imagined no human foot-step had ever yet been traced, I was much surprised to see so strong a path. It was very narrow, but well trodden; and although winding at the back of the fortress, it communicated with another path leading from the country to the eastern quarter of the city.

When, on my return, I inquired very minutely into the nature and use of such a private

private and sequestered way, this was the refult of my inquiries.

The laws in many provinces of Spain being peculiarly favourable to the softer sex, if the wife complains of ill treatment from her husband, he, on her sole evidence, is confined in prison; and should she declare, on oath, that he had beaten her, the punishment would be yet more severe; he would be sent for many years to the presidios.

When, again, a father is displeased with the conduct of his son, if it be such as tends to bring either ruin or disgrace upon his family, the young man is sent to learn wisdom in a forced retirement.

It appears from the observations of the chief justice, Count Campomanes, in the appendix to his Educacion popular, that in Spain many persons of quality are shut up in prison, or sent to the presidios, for these and similar offences. He states, however, yet not much to the honour of the Spanish ladies, that their accusations are not always just. From him we may collect, that a great number of these fair-ones, persuaded by their cortejos, falsely charge their husbands with ill-treatment,

treatment, whenever the good men shew a disposition to be jealous.

Some young men of fashion, at the request of their fathers or their wives, are, as the governor informed me, destined to pass their tedious hours in this castle. Yet, by the connivance of the centinels, they are frequently, in the dusk of the evening, permitted to scale the walls; when, passing disguised into the city, they amuse themselves among their friends, till the company retires; after which they return by the same sequestered path to their destined habitations: and this precisely was the path which had attracted my attention.

In a conversation with the governor on the operation of a punishment long since inslicted both in France and Spain, and lately adopted in our island, that of employing criminals on public works; he perfectly agreed with me, that their labour is scarcely worth a tenth of what it costs; and assured me, that as far as his observation went, this punishment rather tended to harden them in wickedness, than to produce any reformation in their manners. He particularly

particularly mentioned, that of the four thousand five hundred and seventy-nine convicts banished to the presidios or garrifons of Africa, the major part, on their discharge, at the expiration of their terms, returned to the eastern coast of the peninsula; and to this circumstance he attributed the prevalence of the most atrocious crimes in that part of Spain. He considered therefore the presidios as the worst school, to which the youthful offender could be sent.

The country in the vicinity of Alicant is wild and broken; the mountains are lofty, rugged, bare, and little fusceptible of cultivation; the vallies are mostly small, but remarkably fertile; the soil is sandy, with beds of clay and marle. The rock in general is calcarious. The city is partly fed by a valley to the north, and by the Huerta, a rich and extensive valley, to the east, at the distance of one mile, but chiefly by the vale of Murcia. The carriers bring wheat, and load back with sish.

The Huerta is watered from a vast refervoir, called el Pantano, constructed in the mountains, at the distance of about five

leagues

leagues from Alicant. The governor had the goodness to carry me in his coach to view this artificial lake, formed between two high mountains by a wall, the dimenfions of which reduced to English feet are as follow; one hundred and forty-feven high; two hundred and fixty-two wide at top, from mountain to mountain, and not more than twenty-four at bottom. The thickness of the wall is fixty-seven feet at top, and one hundred and twenty-one at bottom. It is very properly made elliptical, to fustain the lateral pressure of the water; but had the thickness of the wall been only feven feet at top, instead of fixtyfeven, this would have been more than fufficient; because the area of any surface being given, the pressure of fluids on that furface is in proportion to its depth. depth being given, it matters not whether the quantity of water be one acre, or ten thousand acres. For the same expence they might have constructed many such refervoirs, one below the other; but when we confider the age, in which this was made (A. D. 1542) we are not surprised to find fo much labour loft.

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When

When the stream comes near Huerta, it is separated into four by the administrator, and each proprietor of land receives, or should receive, the quantity allotted to him, in proportion to his land, paying for this the stipulated price. To prevent violence and fraud, A. D. 1739, the king, by his royal edict, established fixtytwo regulations for the distribution of this water, and appointed a special court to enforce these regulations; yet notwithstanding, either through ignorance of hydrostatics in the managers, through their negligence, or through the influence of bribes, many obtain more than their just proportion, and others are left to murmur and It is to be lamented, that gocomplain. vernment does not construct more pantanos. The farmers in the Huerta could dispose of five times as much as they receive at present; and were the whole interval between the mountains occupied with refervoirs, they might all be filled. This pantano, although vast, has been replenished by four hours rain.

Independent of the produce in all kinds of grain and herbage, government derives a Vol. III. O direct

direct revenue of near two thousand pounds a year by the distribution of this water.

The rock is a fine limestone, covering schist, and, as the country produces pines, juniper, and coscoja, in abundance, sewel for burning lime is on the spot; so that the expence of constructing reservoirs would not be great.

After having examined the pantano, I visited, on the succeeding days, the Huerta, to get acquainted with the agriculture of that rich, well planted, and well watered valley.

Going eastward from the city, having ascended gradually for about a mile, you look down upon a wide expanse of nearly thirty thousand acres, every where inclosed by lofty mountains, excepting towards the sea, and covered with oranges, lemons, sigs, mulberries, almonds, cherries, apricots, peaches, nectarines, plumbs, apples, pears, pomegranates, olives, algarrobos, the more humble yet not less profitable vine, and the liquorice, with every species of grain, of leguminous plants, and of herbage for the cattle.

This vale is faid to contain more than twenty

twenty thousand persons, and I can readily believe it; for, wherever you pass, you see old and young, men, women, and children, innumerable, all busily employed, ploughing, sowing, reaping, treading out the grain with cattle, winnowing the corn, or conveying it to granaries, hoeing in the vine-yards, distributing water to their crops, or digging their land, and preparing it for fresh productions.

When I visited this delightful vale, they had reaped their barley, and were engaged in treading it with mules. To these they added carts drawn backwards on the area, for the purpose of separating the grain, and of cutting the straw for fodder. Others were employed to wind off silk from the cones. Their reel is five feet wide, and receives six compound threads from thirty, thirty-six, or from forty-two cones, which swim in a furnace of boiling water. These threads are made to traverse on the reel, that they may not agglutinate together.

I was much pleased with the reticulated fences round most of the little farms, composed of reeds ranged in pairs, crossing each other like a lattice frame, yet so as to form,

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not rectangles, but lozenges or rhomboidal figures, with the reeds not interwoven, but bound together by esparto threads.

Every part of the Huerta is refreshed with water once in fifteen days during the summer, but in winter it may go three weeks or a month unwatered. Beside the refreshing stream derived from the pantano, they have some norias: the most remarkable of which, belonging to Mr. Arabet, is worked by wind, and raises the water forty feet.

The land never rests; for no sooner has it rewarded the farmer with one crop, than he begins to prepare it for another. In September he sows barley, and having reaped it about the latter end of April, or the first week in May, he immediately puts in maize, which comes off about the middle of September. But before this ripens, he puts in fandias (the cucurbita of Lin.) or some other esculent, which yields him a third crop in the course of the same year. In November he sows wheat, and in June he reaps it. The produce both of wheat and barley is from sisteen to twenty-four for one, having sowed of the some nearly

two bushels to an acre, of the latter between Flax is put into the three and four. ground about September, or the beginning of October, and comes off in May; but hemp, which is fowed in April, continues on the land till August. These, with cucumbers, melons, garbanzos (cicer arietinum), peas, French beans, lettuce, alfalfa (Medicago sativa), form a rich variety of crops, which, cherished by a bright sun and fed by abundant streams from the pantano, prove a never-failing fource of plenty.

In the fpring they abound with oranges and lemons; in fummer they have plumbs, cherries, figs, apricots, and nectarines; in autumn they gather grapes; and in winter a rich variety of fruits supplies their tables. Thus Ceres and Pomona appear to be engaged in a never-ceasing contest, which shall most contribute to the wealth and prosperity of this favoured valley.

One of the most valuable productions of this country is the barilla. For this they plough their land four or five times, dung it well, and then, having turned the earth twice more, they make it fmooth with

03 boards boards instead of harrows, and sow their seed in the months of January and February, waiting always for wet weather.

When the plant is about the bigness of a shilling, they clear off all the weeds, and in September they collect the crop into heaps of about six feet high. Of these they burn sifty in one hole, stirring well the broth with sticks; then, protecting it from rain, at the expiration of eight or ten days, the stone will be cold enough to be removed.

Beside the barilla (falsola soda of Linnæus) this vicinity produces many other species, which, by combustion, yield the pot-ash. These are,

1st, Aguaful, or mesembryanthemum.

2d, Salicor, Salicornea Europæa, of two fpecies, one annual in swamps, the other perennial in dry and stony places.

3d, Barilla punchosa soda colorada, salsola kali. This gives few ashes, and little salt.

4th, Sofa prima, chenopodium maritimum. This plant is the most common, and is to be found all along the coast.

5th, Sofa blanca, chenopodium album.

6th, Sofa gorda, falfola vermicularis.

7th, Sosa lenosa, salfola rosacea.

8th, Hyerba de la plata, mesembryanthemum cryst.

Of these the salsola kali, the salicornia, and the chenopodia, are sound in England; but they do not produce a sufficient quantity of salt to make the cultivation of them profitable.

The rapid progress of vegetation in warm climates fills the inhabitants of more northern regions with aftonishment. Having one day expressed my surprise on this fubject to the governor, he carried me in the evening to the garden of Don Lorenzo Mabile, at a little distance from the city, where we wandered about under the shade of trees, which four years before had no existence but as slips, as seedlings, or as We observed three hundred figfuckers. trees, and three thousand five hundred vines, loaded with fruit; and he already drinks in his family the wine of his own vineyard. Beside these, he has collected together innumerable pomegranates, apricots, apples, pears, plumbs, mulberries, oranges, lemons, algarrobos, and azaroles 0 4 (cratægus), (cratægus), which by their luxuriant growth feem to have been planted at least twenty years.

From this vineyard he made last year three tons and an half of wine, each vine on the average yielding one quart.

The whole produce of Alicant is about four thousand tons.

For the Fontillon wine, the grapes are gathered, picked from the stalks, and exposed on elevated wicker frames for the space of sisteen days to the influence of the sun and wind, in order to evaporate the superfluous moisture, after which they are submitted to the press.

Among the natural curiofities in the vicinity of Alicant, the most remarkable are the baths of Buzot. Having heard a description of them from a physician, I resolved to visit them before I left the city, and, for that purpose, I formed a party on the 31st of May. Early in the morning we mounted our horses, and, having passed through the Huerta, we ascended suddenly twelve or sourteen feet to a plain, upon a higher level, called the Campillo, which, like the Huerta, is watered by the pantano.

After

After having traversed this well cultivated and fertile plain, we began to climb the hills, and, at the distance of sour leagues from Alicant, near to the village of las Aguas, we arrived at the romantic spot where the warm springs break out.

This country is broken by high mountains, of which the most remarkable are the Buchampana, the Sierra Gitana, and the Cabezo, so called by contraction from cabeza de auro, or head of gold. The Sierra Gitana derives its appellation from the gipfies. This elevated chain, exposed to every storm, is far from being a defirable abode, because the lightning breaks upon it with more than common violence, and the thunder is reverberated by its innumerable rocks. These rocks are calcarious, and discover fosfil shells. Here I found some marmor metalicum, or ponderous earth, with gypfum or calcarious earth, each faturated with vitriolic acid; and in many places I picked up iron ore with hæmatites.

On the fouthern declivity, near to the base of these losty mountains, four copious mineral springs break forth, two of them near together, the others more remote. Their temperature is about one hundred and

four degrees of Fahrenheit's thermometer. They have evidently the chalybeate taste, deposit a sediment of yellow ochre, and, upon evaporation, Glauber's and sea salt are sound crystallized in it. Two or three small tumblers silled from any of these springs prove speedily and pleasantly cathartic.

This part of the country is frequently

shaken by strong earthquakes.

I had here an opportunity to examine the natural history of the grana kermes. It is found on the coscoja, or quercus coccifera of Linnæus, here growing to the height of from twelve inches to two feet. The grana appear on the stems or small branches, some near the bottom of the plant, but mostly on the upper branches, yet always protected by the leaves, and fixed to the stem by a gluten, which both to the fight and to the touch refembles thin white leather, fpread over the stem, and covering, like the cup or calix of the acorn, a fegment of the grana. Upon a more minute investigation, I traced the agglutinating coat through a fmall foramen into the grana, from whence it had proceeded, and where it spread, like the placenta, on the internal furface.

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The grana were of various fizes, from an eighth to a quarter of an inch in diameter, perfectly spherical, and covered with a white powder, which being rubbed off, the furface appeared red, smooth, and polished. Upon the same stem I found the grana in three stages. In the first I discovered only tough membranes filled with a red juice refembling blood, but on paper leaving a stain as bright and beautiful as the best carmine. In the second stage there appeared, under the first coat or pellicle, a thin tough membrane inclosing the eggs, now most minute, and fcarcely to be diftinguished without the affistance of a convex lens. Between this membrane and the pellicle was the fame red liquor, but less in quantity than was contained in the former stage. By a careful diffection I took off the pellicle, which was evidently feparated from the inner membrane by what feemed to be the viscera and blood-vessels, but near to the foramen these two coats adhered closely together.

The interior membrane is thin, white, and tough, with a lunar feptum, forming the ovary, which at first is very small, and scarcely fcarcely discernible, but progressively enlarges, till in the third stage it occupies the whole space, when the tincturing juice disappears, and only eggs are to be seen, to the number of sisteen hundred or two thousand.

It is clear to me that the grana derives no kind of nourishment from the plant on which it is fixed; and from its position I am inclined to think, that the little animal chooses the quercus coccisera, which in its prickly leaf resembles the holly, only for the sake of shelter and protection from birds.

I put some of the grana into a coffeecup on the thirty-first of May, and, June the twelfth, I discovered a multitude of animalculæ, of a bright red colour, exceedingly minute, running about the cup with astonishing rapidity, but for short intervals. A friend put some grana into a snuff-box, where he soon forgot them; but when, at the distance of a sew weeks, he had occasion to resume his box; he found the top covered internally with dew, and a multitude of winged insects, all dead, adhering to it. Before my excursion to Buzot, some peasants of Las Aguas had spread them-selves on the adjacent mountains, where they collected more than sour arrobas, or one hundred weight of grana, which they had sold in Alicant for sisteen reals, or about three shillings a pound.

Beside the grana kermes, I observed on the coscoja many large red excrescences; and of these, two species are distinguished, the one formed on the leaf, the other on the stems of the amentaceous flowers. The former appears in the middle of the leaf. on both its furfaces, and is at first of a green colour; but as it swells, it becomes of a bright red, and occupies the whole leaf, with this exception, that in some a narrow margin of the leaf remains. The latter are longer than the former, and where they are found, the stems of the amenta are confiderably larger than the rest; yet the florets, which appear on the furface of these excrescences, are not to appearance affected by them. These morbid tumors have many perforations, communicating with little cells, which contain each a small white grub. The cell

is formed by a strong membrane, but the substance of the tumor is spongy. In the excrescence on the leaf I could not discover any nidus, although I have no doubt that these, like the former, were occasioned by the ichneumon sty, and that each of them contained an egg.

I might here proceed to give at large the natural history of the locust; but this task having been so well performed by the judicious Bowles, I shall be exceedingly brief upon the subject. These voracious insects commit the greatest devastations in the south of Spain; and this proceeds, not merely from the warmth of the climate, but from want of cultivation, because the semales never deposit their eggs in arable land, but always in the deserts. For this reason Galicia, where agriculture prevails, is little insested with the locust.

Adanson, in his voyage to Senegal, has given us a striking picture of the desolation occasioned by a cloud of locusts which darkened the sun, and extending many leagues, in the space of a few hours laid waste the country, devouring fruits, and leaves, and herbage, the bark of trees, and

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even the dried reeds with which the huts were thatched.

Of the locust tribe, Linnæus reckons twenty species. Those I have observed in Spain are the Grylli Italici, distinguished by the redness of their wings. Their jaw bones are strong, and dented like a saw. Their head bears a striking resemblance to that of the horse, and this similitude has been remarked in the whole genus. The sound of their wings is said to be like the noise of distant chariots.

They are not always confidered as a plague, being commonly feen only in the forests; but when the season has been peculiarly favourable for their propagation; when these rapacious insects darken the air; when their assembled hosts fall upon the rich pastures; when they rob the vines and olives of their foliage; when they devour the corn; when they enter the houses, and lay waste every thing before them, they are then universally regarded as the scourge of heaven. As such they were considered, when, for four successive years, from 1754 to 1757, they ravaged all the southern

fouthern provinces of Spain and Por-

tugal.

The description of this gloomy scene, at least of one similar to it, which a prophet has given us, is scarcely to be equalled for beauty and poetic fire. He calls upon the people to lament, because a nation, strong and without number, whose teeth are the teeth of lions, had suddenly invaded them. Then, turning to the heralds,

" Blow ye the trumpet in Zion, and, found an alarm in my holy mountain. all the inhabitants of the land tremble, for the day of the Lord cometh, for it is nigh at hand: a day of darkness, and of gloominess; a day of clouds and thick darkness; as the morning spread upon the mountains, a people great and ftrong: there hath not been ever the like, neither shall be any more after it, even to the years of many generations. A fire devoureth before them, and behind them a flame burneth. land is as the garden of Eden before them, and behind them a defolate wilderness, yea, and nothing shall escape them. The appearance of them is as the appearance of horses; and as horsemen, so shall they run. Like

Like the noise of chariots on the tops of mountains shall they leap; like the noise of a flame of fire that devoureth the stubble; as a strong nation set in battle array. fore their face the people shall be much pained: all faces shall gather blackness. They shall run like mighty men; they shall climb the wall like men of war; and they shall march every one on his way, and they shall not break their ranks; neither shall one thrust another; they shall walk every one in his path, and when they fall upon the fword they shall not be wounded. They shall run to and fro in the city; they shall run upon the wall; they shall climb up upon the houses; they shall enter in at the windows like a thief. The earth shall quake before them; the heavens shall tremble; the fun and the moon shall be dark, and the stars shall withdraw their shining. And the Lord shall utter his voice before his army, for his camp is very great; for he is strong that executeth his word; for the day of the Lord is great and very terrible, and who can abide it."

JOEL, cap. ii. 1-11.

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Their

Their usual refort is in the forests, and in deferts, where they may fafely lodge their eggs without fear of having them disturbed. The female being impregnated, the male haftens to the river, and is drowned in the stream. The female then deposits her eggs in the nearest uncultivated spot, and protects them from the rain by a covering of glue. Having finished this work, exhausted with fatigue, she drinks and dies.

The eggs are hatched in March, in April, or in May, according to the fituation and the feafon. When hatched, the affembled tribes continue together for about three weeks, till their legs, and teeth, and wings have acquired strength, after which they disperse themselves over the neighbouring country, and devour every kind of vegetable.

When the provincial governors are informed in spring, that locusts have been feen, they collect the foldiers and the peafants, divide them into companies, and furround the district. Every man is furnished with a long broom, with which he strikes the ground, and thus drives the young locusts towards a common centre, where a vast

excavation,

excavation, with a quantity of brush-wood, is prepared for their reception, and where the slame destroys them.

A. D. 1780, three thousand men were thus employed at Zamora for three weeks; and it was reckoned that the quantity collected exceeded ten thousand bushels.

A botanist, in the vicinity of Alicant, may have in that pursuit alone, full employment for his time. On the mountains he will find the esparto rush, junipers, pines, the coscoja, rosemary, thyme, mint, sage, lavender, many species of the cistus, and a vast variety of plants too tedious to be enumerated. Those which struck my attention most were the cistus, the caper, with its beautiful white petals and purple stamina, and the Nerium Oleander.

Without going twenty miles from the city you meet with every climate of the temperate zone, either by ascending the mountains, or keeping near the sea. From this circumstance, the botanist derives the greatest advantages in the prosecution of his favourite amusement.

My principal object was the fossil kingdom. With a view to that I examined P 2 Mount Mount St. Julian near the city. The fummit is calcarious freestone, with cockles, beaked oysters, and some other bivalves. Under this lies a stratum of gypsum, charged with fragments of flate, then calcarious rock, with fossil shells. After this, near the level of the fea, is a stratum of shells divided into an upper layer of small fragments; and one inferior to this, composed entirely of shells, mostly perfect, and cemented together by broken fragments, yet unmixed with heterogeneous matter. neath this comes a stratum of pudding rock, fome loofe bowlder stones, all calcarious, and a few shells. This stratum is near to the waters edge.

The rock, on which stands the castle of Alicant, is calcarious, and abounds in fragments of sossil shells; but the Sierra to the north, beyond the vallies, evidently appears to be composed of schist.

I was much surprised to find in Mount St. Julian such discordance in the shells deposited in the rock at different levels. Near the summit, the fossil bodies are bedded in the rock, and petrified themselves; but near the level of the sea they are loose,

and appear scarcely changed: the former, as we have feen, are cockles, oysters, and fome other bivalves; the latter are, the arcæ, cunei, buccina, cassides, cylindri, murices, cochleæ, and pectenoides of Da Costa, of which species not one appears upon a higher level. I was the more forcibly struck with this difference at different levels, from a recollection of the Isle of Shepey foffils, described by Ed. Jacob, Esq; and of the Hampshire fossils picked up under Hordwell Cliffs by Mr. Brander, fo well described by Dr. Solander, compared with those to be found on the limestone hills in the vicinity of Yeovil, of Sherborn, and in Marston Moor; for in these may be observed precisely the same discordance.

Such facts, wherever they occur, as they may hereafter affift us in acquiring a more perfect knowledge of the changes which have in remote periods, happened to the earth, should be carefully recorded.

About two leagues from Alicant is a mountain, called Alcoray, in which the rock is calcarious, charged with extraneous fossils. Here they have discovered cin-

P 3

nabar

nabar and red gypfum, which is perhaps coloured by the cinnabar.

I shall content myself for the present with having recorded facts: hereafter, when occasion offers, I shall refer to them again, and perhaps raise some theory upon them, if at least, in the mean time, a gentleman, who is infinitely better qualified to treat this subject, should not be prevailed upon to communicate his thoughts. Should he indulge the public with his Observations on the Deluge, we shall then be happy in possessing a complete register of facts, and may hope for some consistent theory, such as will stand the test of ages, and be confirmed by every subsequent discovery.

Of diseases, the one most prevalent in this part of Spain is the intermittent sever, arising here, not from marsh miasmata, but from the quantity of melons and sandias, (a species of cucurbita), which the peasants eat, and from their hard labour, when exposed to a scorching sun. For this, in the beginning of the disorder, the patient is bled four times, and drinks lemonade; after which, in seven, or at most in sourteen days, unless death should intervene, he

usually recovers. Should any visceral obstructions indicate, in the opinion of the faculty, such treatment, the Peruvian bark is administered in small quantities, and is said to complete the cure. This account I have from a physician of the royal hospital, who savoured me with a minute relation of his theory and practice in this disease.

It is happy for the people that they have another fource of hope, under the various diseases incident to the human frame, befide the skill of their physicians, a source of hope that never fails them at any feafon of distress. Thus, for instance, St. Anthony, the abbot, secures his votaries from fire; and St. Anthony of Padua delivers them from water; S. Barbara is the refuge of the timid in times of thunder and of war; St. Blass cures disorders of the throat; S. Lucia heals all diseases of the eyes; St. Nicholas is the patron of young women, who defire to be married; St. Ramon is their powerful protector during pregnancy; and St. Lazaro assists them when in labour; S. Polonia preserves the teeth; St. Domingo cures the fever; and St. Roque is the faint P 4 invoked invoked under apprehensions of the plague. And thus in all diseases, under every prefure of affliction, some faint is accessible by prayer, whose peculiar province it is to relieve the object of distress.

In feafons of general calamity, when not individuals, but the community is threatened with peftilence or famine; when the usual patrons are either deaf to their prayers, or have no power to affift them; public processions are appointed, and the SSma faz is exhibited to view. This most sacred relick, like its rival the SSmo sudario, preserved among other valuable remains in the cathedral of Oviedo, is the exact representation of the Redeemer's face, impressed on the handkerchief of Santa Veronica, of which three only were produced.

A learned jesuit has favoured the world with the authentic history of this inestimable treasure. Of the three impressions, one is at Rome, a second is acknowledged to be at Jaen, and the third was for a time deposited at Jerusalem. This, at a season when persecution raged, was sent to the king of Cyprus, and from that ill-sated island it sought resuge in a private chapel belong-

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ing to the Pope. Here it rested for a time; but having been sent to Venice, where the plague was raging, it acquired such reputation, that the Venetians were determined to retain it for ever in their city. The Pope reclaimed his treasure, and a cardinal was sent to conduct it back to Rome; but in the mean time his holiness having by death caused a vacancy in the papal throne, the good cardinal, made a present of his charge to a chaplain, who was appointed curate of San Juan, in the Huerta of Alicant, and thither it travelled with him.

This man, little knowing the treasure he possessed, threw it carelessly into a chest, and covered it with all his stock of clothes; but to his assonishment, when he opened the chest, the sacred image was at the top. Thinking, however, that his servants might have placed it there, he again thrust it to the bottom. This happened thrice, and a third time, to his confusion, he found it on the surface. This wonderful event proved the revival of its same; and from that period the succession of miracles wrought by its superior energy has been unremitted.

It happens unfortunately for this ineftimable relick, that the face is much smaller than natural; whereas those of Jaen, of Oviedo, and of Rome, are all of the proper size. But then it is remarked by the learned jesuit, that, according to the testimony of the reverend monks who perform the sacred offices in the convent of Santa Clara, where it is preserved, the sace does not always appear of the same size, being sometimes indeed diminutive, but at other times visibly as large as those of Jaen and of Rome.

Of late there have been no authentic records of its averting either pestilence or famine; but in the year 1489, after a long drought, being carried in procession, refreshing showers immediately succeeded, and from that time it has been considered as the richest treasure of the *Huerta*.

I am not sufficiently acquainted with the topography of the ancient city, with its chronology, or with the geography of the surrounding country, to sit in judgment on the history of this learned jesuit, who states, that when, in the year 1489, the curate of S. Juan, in the Huerta, affished by two Franciscan friars, was carrying the SSma faz to Alicant, he passed a little ravin, called Lloxia, and made a stand on a rising ground beyond

beyond it: but I am inclined to suspect that he did not recollect the fituation of the city at the time, to which his miracle refers. I leave this matter, therefore, to be discussed by others,

Alicant stood formerly about a league further to the eastward than at present, on the other fide of Mount S. Julian, not far from the cape de la Huerta, and the modern city, fo late as the year 1519, confifted merely of fix cottages; but in three and forty years subsequent to that period, one thousand families had taken refuge in it

from the ravages of the Algerines.

All the ancient houses in the Huerta, by their lofty and strong towers, evidently shew how much were dreaded the depredations of those pirates; and the vast increase of Alicant proves the peace and fecurity its citizens have enjoyed under the protection of its castle. Even so late as the year 1776, the Algerines invaded, like a cloud of locusts, all the sea coast of Catalonia, Valencia, and Granada, but they were foon repulsed. In these incursions, it was not so much for plunder, as for prisoners, that they came; because they knew for a certainty, that their captives would be redeemed, by the the Fathers of Mercy: an order of monks instituted for that purpose. They had too much wisdom to set a value on the labour of a slave: it was the hope of the ransom only which allured them. What a pity is it to see the compassion of these fathers misapplied, and productive of the evils, which they were anxious to prevent! yet such mistakes are common.

I had the curiofity to ask Don Francisco Pacheco his opinion respecting the failure of the Spanish expedition against Algiers. He was present on that memorable day, and being both high in command, and a confidential friend of General O'Reilly, he was competent to form a judgment of his conduct. The armament confifted of twenty thousand men, with a strong fleet to cover them; but the boats were capable of receiving only eight thousand men. The first division, therefore, was ordered to form upon the strand, and to rest upon their arms till the whole force should be disembarked, because the defign of the general was to move in columns, and to take possession of a mountain, which commanded the city of Algiers. The troops of this division made good their landing, and met with nothing to molest them; but the commanding officer, seeing the Moors assembled to oppose him, yet not in sorce; impatient to gather laurels, instead of halting agreeable to orders, cried out, a ellos mishijos, at them my sons, and rushed forward to the attack. The enemy retired, and he continued to pursue them, till he men were harassed and thrown into confusion by multitudes, who lay hid behind camels, rocks, and bushes.

The fecond division hastened to support the first, but it was now too late, and the confusion becoming general, the commander in chief was obliged to order a retreat. This he conducted with such skill, that, embarking his troops in sight of more than a hundred and sifty thousand Moors, he saved his artillery, and lost only four hundred and sixty men; a trisling loss, when it is considered that they had been skirmishing fourteen hours without intermission.

Had it not been for the rashness of the officer, who had the command of the troops first landed, the city must in three days have been reduced to ashes.

On the testimony of such a witness, I can neither doubt these facts, nor the conclusion

clusion which he drew from them; for of all the persons of rank, whom I had the honour to approach, I no where saw his equal for good sense, for simmes, and for

probity.

The highest gratification attached to travelling is the pleasure of conversing with distinguished characters. This pleafure is fo great, that had I met with one only fuch as the governor of Alicant, I should have been well rewarded for the fatigues of a long and of a tedious journey. I think I never saw a brighter model of perfection. Calm and recollected, he appears always to command himself; bold and intrepid, he makes the most obstinate to obey; yet fo mild and gentle are his manners, and so much benevolence appears in his words and in his actions, that all but those, who violate the laws, feel inclined to cultivate his friendship. As a knight of Malta, he has a rich commandery in a delightful fituation, where he might enjoy every gratification, which this world can give, excepting that of being extensively useful to mankind. For this reason he chooses rather to continue in his government of Alicant, where he meets with contradiccontradictions and vexations at every step he takes, either for the improvement of the city, or for the establishment of a regular police. His perseverance, however, will surmount all difficulties, and the latest posterity will bless the remembrance of his name.

In viewing such a character, one cannot help lamenting that he should be a knight of Malta, and therefore a stranger to domestic comfort. Although a knight of Malta, he appears not insensible to the charms of beauty; for speaking one day of the Andalusian women, of their persons, their gracefulness, and their animation, he remarked with feeling, that such superlative beauty was sufficient to turn a wise man's head. I quit with much regret the contemplation of so amiable a character.

The weights and measures of Alicant differ from those of other provinces.

The quintal is four arrobas of twenty-four pounds each, and the pound is of eighteen ounces Spanish, or nineteen English; consequently the quintal is two pounds heavier than our hundred weight.

The vara, of four palms, is very nearly equal to the English yard.

The cantaro is four azumbres, or thirty medias, and is equal to three gallons. It is used for liquids.

The cabiz contains twelve barchillas, or forty-eight celemines, and is equal to feven bushels and a half.

Eight quartos are equal to nine farthings.

The price of Provisions.

Bread-four quartos for fixteen ounces.

Beef—ten quartos the pound of eighteen ounces now, but twelve years ago it was only fix quartos and a half.

Mutton—fixteen quartos and a half now, but at that period thirteen.

Veal-feventeen quartos.

Pork-eighteen quartos.

Fresh fish-commonly eight quartos.

Oil—nineteen quartos the pound, but by the arroba thirty-three reals.

A fowl, big or little, is fifteen quartos.

Salt is twenty-eight reals the fanega, or hundred weight, at the Alfori, or the king's store; where an administrator, a fiel medidor or meter, an escrivano, and a visitador or supervisor, give attendance.

The contract for provisions is made for fix years.

JOURNEY

JOURNEY

FROM

ALICANT TO VALENCIA.

JUNE 6th, I left Alicant. In the vale, the only thing, which struck my attention, was one of the Moorish fountains; but as we ascended to a higher level, I became interested in the strata. Here I saw what I had before conjectured, that these high mountains are composed principally of schist, and that the schist is capped with limestone; yet some of the strata are of gypsum. From these heights we descended to the rich valley of Montfort, which is watered by copious streams, and apparently well cultivated. The soil is light, and in Vol. III.

their ploughs they employ one mule, yet the land produces abundantly, oil, wine, figs, grain of every species, and barrilla. The tomato and the capsicum seem to be in great request. Montfort is sour leagues from Alicant.

After dinner, we proceeded five leagues more to Villena. The way chiefly passes through a rude uncultivated country, between barren mountains of gypsum, which are altogether deferted, and fit only for monumental croffes. In a ravin, I observed a little stream, flowing over a bed of selenite, whose margin is covered with sea - falt. Having paffed the mountains, we entered the fertile vale of Elda, where vines, almonds, figs, and olives, with wheat, maize, barley, and alfalfa, cover the wide expanse. In the vineyards they were ploughing with two mules, but in the open field they use a fingle ass. On the left, between Elda and Villena, is Sax, a village of two thoufand fouls, in a most romantic situation, at the foot of a steep and rugged mountain, on the fummit of which is an old caftle looking perpendicularly down upon the village, with its adjacent plain. Having croffed this plain, we travelled between high rocks and mountains to Villena.

Villena is a confiderable city, placed at the termination of a fierra, called S. Chriftobal. It contains two thousand five hundred families, divided into two parishes, with two convents for men, one for women, a congregation of S. Philip Neri, a palace for the marquis its proprietor, and several other considerable edifices. On the adjoining mountain is a very ancient castle, formerly a place of strength, but commanded by a more elevated mountain.

In this city are established manufactures of soap and linen, with many distilleries for brandy.

The public walks are very pleasant, and well laid out; the fountains send out copious streams, and together form a rivulet by which the plain is watered.

Thus plentifully watered, this extensive plain produces wheat, barley, oats, rye, maize, leeks, onions, parsnips, alfalfa, hemp, vines, olives, figs, and mulberries.

Near the city is a lake of falt, two Q 2 leagues

leagues in circumference; and at the diftance of four leagues, a hill, composed of rock-salt, is covered with gypsum.

Provisions on the whole are reasonable: beef being sold for six quartos, or something under seven farthings, a pound of sixteen ounces; but mutton is worth sourteen quartos, or nearly sour pence.

In the posada I observed, that the windows have no kind of fastening; from which I collect, either that remarkable simplicity prevails, or that a watchful police restrains the sallies of intemperance, with the depredations of consequent distress.

All the rocks in this vicinity are lime-

June 7th, at five in the morning, we proceeded on our journey over the plain to Fuente la Higuera, leaving Almanza to the left, at the distance of near a league.

Bishop Burnet is mistaken in the account he has given us of the samous battle of Almanza. The sact was simply this: the duke of Berwick, anxious to bring on a decisive action, sent two spies into lord Galway's camp, under pretence of being deserters, with a report that the duke of Orleans

Orleans was conducting from France a reinforcement of twelve thousand men; that in two days he was expected to arrive, when the two dukes, with their united forces, would compel the English to engage. Lord Galway fell into the fnare, raifed the fiege of Villena, marched his army, April 14th, three long leagues, and in the middle of the day, with his fainting troops, attacked the duke of Berwick, who was calmly waiting to receive him. The event was fuch as might be well expected; for, by this ftratagem, the duke put the crown on the head of Philip: and, by his valour, he preserved it there.

The day after this engagement, the duke of Orleans, with only fourteen attendants, joined the victorious army.

Fuente la Higuera, a village of between two and three thousand inhabitants, is built on a rock, surrounded by high mountains of lime-stone, and looks down upon a fertile valley. This vale is not well cultivated; yet such is the richness of the soil, that all the crops are good; and the trees are most luxuriant in their growth. Were it well watered, it would certainly be more productive.

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The village belongs, with many in its vicinity, to the marquis de dos Aguas, who names the magistrates.

When we left Fuente la Higuera, we joined company with five men, who had the charge of fix horses, all loaded with dollars, and bound for France. As soon as we had descended to the plain, every man crossed himself, discharged his musket, then loaded his piece afresh, and slung it by his horse's side.

From this delightful plain we foon entered a contracted valley, shut in by lime-stone rocks, where the prospect changes at every All the level fpots are covered with wheat, barley, oats, or maize; the higher lands are allotted to olives, figs, or vines; and the rugged moors, unfusceptible of culture, are abandoned to rofemary, thyme, mint, layender, and the lovely oleander, whilst lofty pines vary the scene, and crown the most elevated rocks. The road, lately finished, is rounded, well stoned, and perfectly straight. As we advance, the valley widens, and we admire groves of algarrobos, with olives and extensive vineyards.

On the left hand we look up to the defolated convent and castle of *Montesa*, built for the military order of that name, A. D. 1319, by D. Jayme 2d, and ruined by an earthquake, 23d March, 1748.

This country is frequently convulsed; and it is remarkable that, previous to the shock, the wells are all affected, rising and falling suddenly between wide extremes.

At the end of every league we see a neat cottage with its garden, the habitation of the guardia de camino, whose office, as we have already seen, is to defend the traveller, and to mend the road.

About seven in the evening we arrived at Roblar, and went to the posada del rey, a modern edifice, built by the king, well furnished, and administered on his majesty's account. The beds are excellent, with paillasse, mattress, and fine linen. In the morning, when I drank my chocolate, they brought me a beautiful china cup and saucer, made at the royal manusactory of the buen retiro, in imitation of the French. The price of every thing is fixed, and the administrator is remarkably attentive to his

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guests.

guests. It is, without exception, the most comfortable inn I have met with in Spain. They have fourteen bed-rooms, a kitchen for the common carriers, a spacious coachhouse, and stabling for three hundred and thirty horses, mules, and asses.

From hence we look up to Xativa, or Sætabis, now called San Felipe, a city containing about ten thousand souls, with eight convents for monks, and two for nuns. This circumstance bespeaks the richness and beauty of the country. Indeed no valley can be more fertile than this extensive plain; the whole appears to be a garden, covered with the most luxuriant herbage, bearing three crops in the year, and yielding wheat, barley, rye, beans, peas, rice, maize, oil, wine, and silk, in great abundance.

Xativa had the honour of giving birth to Joseph Ribera, better known by the name of Españoleto.

On these mountains we see limestone, marble, alabaster, and gypsum, of various colours. In the former, fossil-shells are found.

When we leave this plain, we again traverse verse the mountains, where we have occafion to admire the patience and perseverance of the Spanish character. They are now making a new road, and feem refolved to keep it on a level, notwithstanding the inequality of the ground over which they are to pass, not turning either to the right hand or to the left. If they meet with a deep ravin, they fill it up; if with a hill, they cut through it. I observed them in one place, rather than deviate a little from a right line, cutting a wide passage through a limestone rock for a confiderable way, to the depth of more than fifty feet. Their ambition fcorns all bounds; and, by their strenuous exertions, they feem determined to remove every obstacle, which can impede them in their progress to absolute perfection.

From the summit of these mountains we have an extensive prospect, and look down

upon the rich valley of Valencia.

Here I picked up some beautiful red gypsum. Several veins of cinnabar have been discovered in this neighbourhood in calcarious rock; but I do not mean to insinuate that the gypsum is coloured by this mineral,

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mineral, because I rather suspect that the tincture is from iron.

About four in the evening we arrived at Valencia, having travelled, in three days, twenty-feven leagues, or about a hundred miles.

VALENCIA.

HE fituation of Valencia is delightful, and the country round it is a perfect garden, watered by the Guadalaviar, on the banks of which the city stands. is divided into fourteen parishes, including the cathedral, and is faid to contain a hundred thousand souls. On the average of two years, A. D. 1782 and 1786, the marriages were fix hundred and eighty-one; the births, two thousand fix hundred; the burials, two thousand five hundred and twenty-five. The city is evidently flourishing; and, were we to judge by the returns to government, we should be inclined to think the progress, in respect of population, fince the commencement of the prefent century, had been rapid. In the whole province, A. D. 1718, when the equivalent

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was fettled, they reckoned fixty-three thoufand feven hundred and feventy families, and two hundred and fifty-five thousand fouls. A. D. 1761, thefe amounted, when numbered for the quintas, or levies for the army, to one hundred and fifty-one thoufand one hundred and twenty-eight families, and fix hundred and four thousand fix hundred and twelve fouls. A. D. 1768, Count d'Aranda obtained an account from the bishops of one hundred and seventy-nine thousand two hundred and twenty-one families, and feven hundred and fixteen thoufand eight hundred and eighty-fix fouls; and now, by the last returns, we may calculate them at one hundred and ninety-two thousand nine hundred and seventy families, because we find seven hundred and feventy-one thousand eight hundred and eighty-one fouls. In this province they reckon only four persons to one vecino or master of a family.

In a city like Valencia we naturally expect to see many convents: they are indeed numerous, being no sewer than forty-sour, nearly divided between the monks and

nuns.

nuns. Befide these, we find ten churches, belonging to congregations, colleges, and hospitals.

The streets are narrow, crooked, and not paved; yet they are clean, and therefore healthy.

The principal buildings are, the cathedral, the convents, and the university; of which the former, without comparison, is the most worthy of attention. It is of Grecian architecture; light, elegant, and highly finished, more especially in the dome, and in six of the larger chapels. Altogether I never saw a more pleasing structure.

Near to the entrance, the first chapel to the right, opposite to the high altar, is dedicated to S. Sebastian. This contains a good picture of the saint, by Pedro Orrhente of Murcia. Next to this, when you have passed the entrance to the chapter-house, is the chapel de la comunion, with its cupola and three altars. Similar to this are the chapels of S. Francis of Borja, of S. Pasqual, and of S. Thomas. The former of these is elegantly fitted up by the coun-

dia, owes peculiar reverence to S. Francis; once the lord of Gandia, and now its patron. The cross iles have each four altars, and massive marble pillars. Behind the great altar, eight little chapels, decorated with marble columns, contribute much to the beauty of this edifice. To the north, the church is fitted up in much the same manner as we described it in the south; and round the choir, in twelve recesses, are twelve altars, making altogether fifty-four altars, at most of which incense is daily offered.

The great altar, thirty feet high by eighteen wide, is filver; and the image of the Blessed Virgin, six feet high, is of the same precious metal: the workmanship of both is admirable. On the altar, in eight several compartiments, are represented, in bold relief, as many sacred subjects, executed by the best masters, who lived at the close of the sisteenth century. These are protected by folding doors, of greater value for their paintings than the altar itself for the silver it contains. The subjects are twelve; six on the outside, and as many

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on the infide, the production of Francis Neapoli, and of Paul Aregio.

In the facrifty, I saw a massive sepulchre of silver gilt, designed for the reception of the host on good Friday; a magnificent throne and canopy of silver, for Easter Sunday; and, of the same metal, two custodias, one with Corinthian columns, and images of the two patron saints; the other, twelve seet high, with a gold border, innumerable gems, and a little image of S. Michael the archangel, composed entirely of brilliants. This was added to the treasures of the church in the year 1452.

All the best pictures are disposed of in the facristy and chapter-house. Those by the canon Victoria, and by Vergara, are excellent; but the most beautiful, and little inferior to Raphael's, are many by Juanes; more especially his Holy Family, in the chapter-house, and his Ecce Homo, in a chapel of that name.

Among the relics, those held in the highest estimation are, many thorns of the Redeemer's crown; the curious cup in which he drank at his last supper; and a wretched

wretched picture of the Blessed Virgin, painted by S. Luke.

The revenues of this church are confiderable. The archbishop has one hundred and fixty thousand pesos, or twenty-four thousand pounds a year; seven dignitaries have each from eight to sourteen hundred pesos; twenty-six canons, ten lecturers, a master of ceremonies, chantors, assistants, &c. to the number of three hundred, are all well provided for.

Whenever the nation shall be reduced to the necessity of doing as the French have done; what amazing wealth, now stagnating and useless, will, by circulation, become productive!

After fatisfying my curiofity in the cathedral, with the edifice, the treasures, and, above all with the paintings, I ascended the tower to take a view of the city and of the surrounding country. The prospect is extensive, and highly interesting. You look down upon a vale plentifully watered, wooded, and well cultivated, adorned with a rich variety of orchards and of corn-fields; yet, from the numerous habitations.

tations, appearing like one continued village. To the east, you see this valley open to the sea; but bounded in every other direction by distant mountains.

In the convents I found fome good pictures, more especially in the following: in the two Carmelites, the Capuchins, the Dominicans, Franciscans, Augustines, the convent alotted to the nuns of Jerusalem, and the congregation of S. Philip Neri. In thefe, the artists whose works are most worthy to be admired are, Jacinto de Espinosa, Juan Bautista Juanes, Francisco Ribalta, Don Joseph Ramirez, Vicente Victoria, who was a disciple of Carlo Maratti, with many others, all natives of Valencia. In the church of San Juan de Mercado, the roof is painted in fresco by Palomino, who was likewise of Valencia. The famous Supper of Ribalta is in the college of Corpus Christi.

This feminary is worthy of attention, not merely for the pictures, which are beautiful; but for the library, which is well chosen, considering the age in which the patriarch of Antioch lived. He finished his college in the year 1604, and all the books

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were collected by himself. Among the relics in the sacristy, I took notice of a piece of sculpture so minute, that in the size of an octavo volume it contained more than a hundred sigures carved with the greatest elegance and truth.

In this college twenty-three masses are repeated daily for the dead, and for each the officiating priest receives four reals. In Spain sew people of distinction die without making a provision for this purpose; but as the religious houses sometimes receive the legacy, and neglect the obligation connected with it, this proves a source of frequent litigation between the community and the friends of the deceased.

Of all the parish churches, not one, beside S. Nicholas, appeared worthy of attention. In this I admired the roof, executed in fresco, by Vidal, a disciple of Palomino, and the dome painted by Victoria.
S. Thomas, of Villanueva, does credit to
the pencil of Vergara. Three pictures
by Espinosa, and two by Juanes, of which
one is the Last Supper, painted by that
great master for the altar, must be reckoned
among the finest pictures of Valencia.

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The revenue of the religious houses is said to be considerable; but the most wealthy society in Valencia is the one last established; for when the convent of Montesa was destroyed by the earthquake of 1748, the monks removed their habitation, and settled here. They have lately sitted up their church with much taste, and at a considerable expence. This they can well afford, because, for the maintenance of sour and twenty friars, they have a nett income of nine thousand pesos, or something less than sourceen hundred pounds a year.

The university of Valencia is a respectable community. It was sounded at the solicitation of S. Vincent Ferrier, A. D. 1411; and soon after its institution, D. Alonso III. of Arragon, granted the privilege of nobility to all the students who should graduate in law. It was lately much on the decline; but the present rector has raised the reputation of his seminary, and they now reckon two thousand sour hundred students. When I was at Valencia, he was just returned from Madrid with his new plan of study, approved of by his majesty. (22d Dec. 1786.) The professors

are feventy, viz. feven for the languages, including Latin, Greek, Hebrew, and Arabic; four for the mathematics, comprehending arithmetic, algebra, geometry, mechanics, hydrostatics, optics, astronomy, and experimental philosophy. In philosophy, including logic, metaphyfics, moral philofophy, and physics, three permanent and as many temporary professors. In this branch they take father Jacquier for their guide. For medicine, with chemistry, they have eleven profesfors; fix permanent, the other five changed at the end of three years. this science they have adopted the best modern authors, fuch as, Beaumè, Macquer, Murray, Heister, Boerhaave, Home, Van-Swieten, and Cullen. They have adopted the practice of the latter; but unfortunately, they have overlooked his best performance, which, without a question, is the Synopsis Nosologia Methodica; and they appear not to be acquainted with the works of Haller and of Gaubius. Like the medical school at Edinburgh, they have a clinical ward, vifited daily by the students, and clinical lectures given by the profesfors. Befide thefe, with fingular liberality of fentiment, timent, they permit the professors to take what bodies they think proper from the hospital, to be dissected by their surgeons.

For civil law, for canon law, and for ecclefiastical discipline, ten permanent professors are appointed, with nine assistants, who are chosen for a time, and changed in rotation every year.

Eighteen professors, of which eleven are permanent, teach theology, including ecclesiastical history, and what they call theologia escolastico-dogmatica.

These lectures begin the first of October, end the last of May, and are interrupted by as few holidays as the catholic religion will admit of.

During the month of June, all the students are publicly examined in the lectures they have attended the preceding year; if approved, they receive their matriculation, and pass on to a superior class; if not approved, they continue another year in the same class, and being then sound deficient, they are expelled the university. To excite their emulation, prizes of books and money are proposed, and distributed at the end of the examination, to those who have made the greatest progress in the sciences.

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To graduate, if in arts, the student must, for a bachelor's degree, have obtained two matriculas, that is, he must have attended lectures two years, and must, at the public examination, have been twice approved; and to be master of arts, he must have gained three matriculas. In divinity and law, after four matriculas, he may claim his bachelor's degree; but to be doctor, he must have gained five. For the bachelor's degree in medicine, he must have attended the medical classes five years, and five times he must have passed his examinations. After this he must practife two years in the hospital before he can be admitted to his last degree. This certainly is an improvement on the plan purfued at Edinburgh, where three years study, or rather three years attendance on the lectures, and a flight examination, is all that is required for the degree of doctor. In Valencia, the candidate for this degree is privately examined by the profesfors. After this, if approved, he performs public exercifes, and submits to a second examination. The professors then enter the chapel, and give their votes in private. these are favourable, they proceed to examine mine him once more in public, and if he acquits himself to their satisfaction, it is finally determined by vote that he shall be

honoured with a degree.

The candidates for professorships form a distinct and separate class, and to be admitted into this, a man must have gained a certain number of matriculas in every science which can be useful in his line, and must pass a severe examination, both in public and in private. Thus, for instance, in medicine, to be what they call opositor, that is, to be admitted into the class of those who may be hereafter candidates for a vacant chair, whether permanent or temporary, he must have obtained two matriculas in Greek, two in mathematics, and one in the mechanics; he must defend a thesis, and be examined in every branch of medicine, by three censors at least, both in public and in private. After the examination, the cenfors with the rector enter the chapel, and having fworn before the altar to judge impartially, they decide by ballot whether the candidate be qualified or not. If all his exercises meet with their approbation, he is publicly received, invested R 4 with with the enfigns of his order, and immediately takes his feat among the professors of the university.

From this class alone all vacant chairs are filled; and from the opositors are taken the correctors of the university press. Whilst thus employed they receive a salary. When a chair is vacant, it is filled by opposition; that is, it is given to him among the competitors, who, upon a strict examination, is judged to be most worthy of it.

The falaries are moderate. The rector of the university has thirty pounds a year; the vice-rector, sisteen. The permanent professors have in general forty pounds a year, but the professors of chemistry receive sixty; the anatomist has sisty for salary, with ten for thirty dissections; and he who gives lectures on the practice of medicine is allowed seventy-sive. The temporary professors, twenty-sour in number, receive no more than sisteen pounds per annum.

This establishment being in a state of infancy, it has been thought expedient to offer premiums to the professors who excel. After twelve years unremitted application

one shall write usefully on the science of which he is professor, he is to receive an additional pension of ten pounds; and if, after twenty years, he shall produce any valuable work, he will be entitled to an additional pension of twenty pounds: but should he compose an improved system, such as may be usefully adopted in his class, he will be entitled to a pension for life of thirty pounds a year, in addition to the former, on condition that he resigns his property in that work to the community.

The profits of the university press are designed, in the first place, to compose a fund of three thousand pounds. Of the surplus produce, sixty pounds a year is to be referved for purchasing books, after which the residue will be equally divided every fourth year between the rectors, professors, librarians, and correctors of the press.

Their library contains many thousand volumes, mostly modern and well chosen, all collected by D. Francisco Perez Bayer, and presented by him to this university. At his table at Madrid I had frequently met the rector, and was therefore happy in re-

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newing our acquaintance at Valencia. He did me the honour to conduct me through the library, and shewed me a valuable collection of pictures in his own apartments. They are principally the works of the best masters of Italy and Florence; but among them he has some capital performances of Juanes.

The rector is a man of profound learning, and very zealous for the advancement of science in his community. For this purpose he undertook a journey to Madrid, and to him must be ascribed all the recent regulations, with the incomparable plan of study said down in the royal edict, to which I have referred. These do much credit to his understanding, and if carried into execution, will make this seminary one of the most respectable in Europe,

Beside the library of the university, sour galleries in the archbishop's palace are devoted to the same purpose, and contain thirty-two thousand volumes, among which are many modern publications in every branch of literature. The rudiments of this collection, at the expulsion of the Jesuits, about the year 1759, consisted only

of their spoils; but the worthy prelates, who have been honoured with the crofier in this city, have fwelled the catalogue by the addition of not a few among the many valuable productions, which have appeared in Europe fince the commencement of the

present century.

Should literature revive in Spain, I am inclined to think it will be at Valencia. Men of genius are not wanting there; and whenever they shall take the pen, no press can do more justice to their works, than the one established in that city. Whoever has had an opportunity of feeing a valuable work of Francis Perez Bayer on the Hebræo-Samaritan coins, printed by Montfort, will agree with me in opinion, that no nation can boast of a superior work.

In traverfing the city, to view whatever was most worthy of attention; considering its flourishing condition, and the opulence of the citizens, whether merchants, manufacturers, ecclefiaftics, the military, or gentlemen of landed property, I was struck with the fight of poverty, of wretchedness, and of rags, in every street. The hospicio, or general workhouse, provides for two hundred hundred and twenty men, one hundred and fifty boys, two hundred and eighty women, and ninety girls, who are all well fed, well clothed, well lodged; yet the city fwarms with sturdy beggars. I suspected, however, what I found to be the case, that the ecclefiaftics distribute money, and that the convents administer bread and broth every day at noon, to all who make application at their gates. This circumstance will sufficiently account for the multitude of miferable objects, who in Valencia, as in all places, bear exact proportion to the undiffinguishing benevolence of wealth. When in health, the most lazy can never be in want of bread; and when ill, they have an hospita, always open to receive them. Should the indolent and vicious be inclined to abandon their offspring, the same hospital will provide for the helpless infant a cradle and a grave.

I took an account of the patients and foundlings of the preceding year, ending the 31st of December, 1786.

Of the peafants and common people, they received in the general hospital four thousand eight hundred. Of these, three

thousand

thousand nine hundred and twenty-fix went out, two hundred and thirty-five remained, and fix hundred and thirty-nine died.

Of the military, eight hundred and ninety entered, feven hundred and eighty-two went out cured, eighty-one remained, and only twenty-feven died.

The foundlings were, three hundred and thirty-two, and of this number there died one hundred and fifty-nine.

Thus we see, that of the military, one out of thirty-three died in the hospital; but of the common people, nearly one in seven. The difference arises from this circumstance, that the lower classes are hurried away to the hospital, when near death, to save the expence of burial.

Of the foundlings, little less than half die within the year.

One establishment deserves the highest commendation; it is a monte pio, or bank, for the affistance of farmers, who are unable to purchase seed. For this loan they pay no interest, the funds being furnished as at Malaga from the esposios y vacantes of the church, that is, from the essects of metropolitans deceased, and from vacant benefices.

Such an institution for the promotion of agriculture, and for the encouragement of industry, considering the poverty of sarmers, and their universal want of capital, is certainly politic and wise. From the same funds in Galicia, sishermen are provided with boats and nets.

No city in Spain pays more attention to the arts than the city of Valencia. The public academy for painting, statuary, and architecture, is well attended, and many of the pupils seem to be rising up to eminence.

To have good designers is of the last importance to their manufactures of silk, of porcelain, and for painted tiles.

The filk manufacture is the most important, because the most natural to the soil and to the climate. A. D. 1718, they reckoned no more than eight hundred looms, but by taking off oppressive taxes, trade advanced, the manufacture flourished, and before the year 1740, the weavers amounted to two thousand. (v. Restablecimiento de las Fabricas por D. Bernardo de Ulloa.) In the year 1769, Don Antonio Ponz reckoned in the city no sewer than three thousand one hundred and ninety-sive looms,

looms, including one hundred and seven stocking frames, and in the whole province, three thousand four hundred and thirty-seven; which required six hundred and twenty-two thousand two hundred and fifty pounds of silk. The trade is still increasing; and a gentleman engaged in it assured me, that they have now five thousand silk looms, and three hundred stocking frames. Their silk is thirty per cent. cheaper than it is in France, yet they are not able to meet their rivals fairly in the market.

At Alcora, in the neighbourhood of Valencia, a manufacture of porcelain has been successfully established by Count d'Aranda, and deserves encouragement. I was much pleased with their imitation of gilding. It is very natural; and the manager informed me, that after many years trial it was found to be durable.

I was most delighted with the manufacture of painted tiles. In Valencia, their best apartments are sloored with these, and are remarkable for neatness, for coolness, and for elegance. They are stronger, and much more beautiful, than those we formerly received from Holland.

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The commerce of Valencia is considerable. My much respected friend, the Abbè Cavanilles, states the produce of this fertile province, A. D. 1770, to have been fixty-five millions of livres, or £. 2,708,333. viz.

			Sight.	Livres.
Dates	an 3 - di i	age a nd a	ACT.	300,000
Figs, 60	,000 quinta	als, a. 8	-	480,000
0	,000 ditto,			1,500,000
Hemp, 2	5,000 ditto	, a. 40	7	1,000,000
Oil, 100,	,000 ditto,	a. 45		4,500,000
Raisins,	60,000 ditt	o, a. 10		600,000
Rice, 14	0,000 load,	a. 37	-	5,180,000
Silk, 2,0	00,000 pou	ind, a. I	5	30,000,000
Wood, 2	23,000 qui	ntals, a.	40	920,000
Wine,	3,000,000	cantaros	, a.	
15 fol	s -			2,250,000
Corn, f	uch as w	heat, c	ats,	Desir Rivers
maize	; oranges,	lemons,	al-	
mond	s, pot-ash, c	arobs, es	par-	
				18,270,000

65,000,000

In this account I am inclined to think the brandy is omitted, as it is certainly too confiderable to be included in one of the et ceteras. The quantity exported amounts commonly

commonly to feven or eight thousand pipes, most of which comes to us through Guernsey as French brandy.

The filk, according to Bernardo Ward, is little more than one million pounds.

The usual exports from Valencia are,

Esparto rush, three or four cargoes for Italy and France.

Figs, two cargoes.

Hemp, only to Carthagena for the fleet.

Raisins, fifteen ships loaded with two thousand quintals each.

Wine, three or four thousand pipes.

Wool, about thirty thousand arrobas for Languedoc and Genoa.

Silk goods for America, one million two hundred thousand pounds weight.

But raw filk is not at present allowed to be exported, lest the price should be advanced, to the detriment of the manufacturer at home. The consequence of this absurd prohibition is, that,

tst, Great quantities are carried out by the illicit trader, whenever silk is wanted either in France or Portugal.

2d, The French have greatly increased their plantations of mulberries in Langue-Vol. III. S doc.

doc. The Italians and Portuguese have done the same in their dominions. Even the king of Prussia, in Silesia, has lately introduced this branch of husbandry, and cherished it with such attention, that in the year 1783 the produce was eleven thousand

pounds weight.

3d, The quantity produced in Spain is not only less, but the quality is worse, and the price to the manufacturer at home is higher than if the ports were open, and the trade were free. The maxim, on which the Spaniards have proceeded, was laid down by Colbert, when he put restraints upon the trade of corn, with a view to render provisions cheap, for the fake of manufactures. But experience has proved the folly of that expedient; for the English, by permitting the exportation of grain, increased the quantity, funk the price, and brought the market nearer to a par. Previous to that period, wheat varied in its price between wide extremes, from fixteen guineas of our money to three shillings a quarter, or in old money, from a shilling to five pounds twelve. In proportion as liberty was granted to this commerce, the average price

of

of corn was found to fink, and the markets have been more regular.

The marquis de la Enfenada, A. D. 1752, permitted wheat, barley, rye, and maize, to pass freely from one province to another; and in 1774, M. Turgot, whose name will be had in everlasting remembrance, granted the same liberty to France. The confequence was equally beneficial in both king-But notwithstanding their expedoms. rience in the article of grain, all the nations of Europe, even the most enlightened, have had contracted views, and by their impolitic restrictions have done the greatest injury to agriculture, to manufactures, and to commerce. A fagacious writer on political economy has well observed, that modern states appear seldom to think of more than one class of their subjects at a time, and generally of the wrong class. For in prohibiting an export, they think only of the buyers at home, whereas they ought then to think of the fellers there; and in prohibiting an import, they think only of the feller at home and forget the buyers; the very reverse of which ought to happen; because, when the private fagacity of the subject has taught him that he can make a gain in any sale,

or a faving in any purchase, the state ought to facilitate his operations, which, in proportion to the extent of the concern, would produce a balance in favour of the country. It should always be remembered, that the demand creates the produce.

The immediate effects of permitting the free exportation of filk would be to raise the price; but then the increase of price would restrain the exportation, and by the encouragement thus given to the producer, tend to increase the quantity, and thereby ultimately to fink the price, till every thing had found its proper level. When the question is between the operations of agriculture and manufactures, Spain should never hesitate; but should by all means give the preference to the former, as most beneficial to the state.

No country, as far as positive injunctions can avail, has taken more pains to promote plantations of all kinds, but especially of mulberries, than Spain. By a royal edict, dated in the year 1567, commissioners were authorised, with their alguazil and escrivano, to make a progress through the country, and to compel, by penalties, corporations to plant, in a time li-

mited, their mountains and their wastrells, and private people to make hedge-rows, appointing both the kind of trees and the distance at which they should be planted. But no provision being made for nurferies, for fencing, and for watering the tender plants, the country still continues destitute of trees. Indeed the national prejudice is so strong against them, as harbouring birds, and the vexations to which they subject the owners of the soil are so many, that few people are inclined to plant. Vifitors are appointed to watch the proprietors, and no one is permitted to cut down, even a decayed mulberry-tree, without a special licence. Should he transgress, and take one for any domestic purpose, he must bribe and feast the visitors, or he will be subject to prosecution and a fine.

In the royal edict for the regulation of plantations, published A. D. 1748, are the

subsequent provisions:

§ 2. Intendants, in their registers, shall specify the number of trees of all kinds in their several districts.

§ 5. They shall register the heads of families, and cause each to plant annually

S 3 three

three trees, yet widows, if poor, shall be excused.

- § 15. The minister of the marine shall visit personally the several districts, and examine the condition of these trees.
- § 20. No tree shall be cut down for fewel, without a certificate from the escrivano of the village that the tree is dead.
- § 23. Intendants shall regulate the price of wood for fewel.
- § 30. No proprietor shall presume to cut any of his trees for building or repairs, without permission from the intendants. The written petition for this end must specify the quantity required, and the purpose for which it is solicited.
- § 31. The petition being directed to the sub-delegate of the intendant, shall by him be forwarded to the justicia; and having received from the court a certificate that the allegations are true, and pointing out the most proper place for felling the number which is needful, the intendant or his deputy shall give permission for the same, on condition that the proprietor shall plant three for one.

Spanish silk, from its inequality, is not

in fuch request as that of other kingdoms; yet for some purposes it answers very well. For this reason our importation has commonly been trifling, and scarcely worthy of attention. In the year 1779, it amounted only to forty-four pounds and one-third, and the next year to fixty-five. But A. D. 1782 we took from Spain five hundred and forty-one pounds and one third, and the next year one thousand three hundred and thirty-nine pounds; after which, for three years, we received no more; but in the year 1784, we supplied that country with fix thousand three hundred and fix pounds of raw filk; and four years after, we fent five thousand seven hundred pounds of thrown filk, receiving in return three hundred and ninety-three pounds raw, and one hundred and forty-one thrown.

The quantity of wrought filks the Spaniards took from us, on the average of fix years, from 1783 to 1788 inclusive, as it appears by our custom-house books, was, in piece goods, one hundred and fixty-fix pounds, in hose five hundred and seventy-eight pounds, mixed with inkle three hundred and seventy-nine pounds, and with S 4 worsted

worsted one thousand five hundred and six pounds. Their predilection is certainly in favour of the French, who, in point of taste, may with justice claim the preference. Formed on this model, by the assistance of their newly instituted school for painting, and with due encouragement from the Economical Society, the Valencian weavers must improve, and may be in time competitors with those of Lyons, who at present appear without a rival in the market.

If we may believe Bernardo Ward, time was, when Spain produced and employed in her own looms ten million pounds of filk; whereas at prefent she produces little more than one million, half of which is exported raw.

The mulberry of Valencia is the white, as being most suitable to a well-watered plain. In Granada they give the preference to the black, as thriving well in elevated stations, as more durable, more abundant in leaves, and yielding a much finer and more valuable silk. But then it does not begin bearing till it is about twenty years of age. In this province they reckon, that five trees should produce two pounds of silk.

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I had the curiofity to examine their method of feeding the filk-worms. These industrious spinners are spread upon wicker shelves, which are placed one above the other, all round, and likewise in the middle of, each apartment; fo as to leave room only for the good woman to pass with their provisions. In one house I saw the produce of fix ounces of feed, and was informed. that to every ounce, during their feeding feafon, they allow fixty arrobas of leaves, valued at two pounds five. Each ounce of feed is supposed to yield ten pounds of filk, at twelve ounces to the pound. March 28, the worms began to hatch; and, May 22, they went up to fpin. On the eleventh day, from the time that they were hatched, they flept; and on the fourteenth, they awoke to eat again, receiving food twice a day till the twenty-fecond day. Having then slept a fecond time, without interruption, for three days; they were fed thrice a day: and thus alternately they continued eating eight days and fleeping three, till the forty-feventh day; after which they eat voraciously for ten days, and not being stinted, confumed fometimes from thirty to fifty arrobas in

four and twenty hours. They then climbed up into rosemary bushes, fixed for that purpose between the shelves, and began to spin.

Upon examination, they appear evidently to draw out two threads by the fame operation, and to glue these together, covering them with wax. This may be proved by spirit of wine, which will dissolve the wax, and leave the thread. Having exhausted her magazine, the worm changes her form, and becomes a nymph, till on the feventyfirst day, from the time that the little animal was hatched, when she comes forth with plumage, and having found her mate, begins to lay her eggs. At the end of fix days from this period of existence, having answered the end of their creation, they both lie down and die. This would be the natural progress; but, to preserve the filk, the animal is killed by heat, and the cones being thrown into boiling water, the women and children wind off the filk.

Silk-worms, in close rooms, are much subject to disease; but in the open air, as in China, they are not only more healthy and more hardy, but make better silk. It appears

to be precifely the same with them, as with the sick confined in hospitals, or foundlings shut up in work-houses. For this reason the ingenious Abbé Bertholon recommends procuring from China some of the wild silk-worms, and leaving them in the open air, protected only by a shed from rain. He is persuaded that the race might thus be made so hardy, in process of time, as to survive all the variations of the seasons.

In China, they have three kinds of filkworm, two living on the leaves of the ash and of the oak; the third, thriving best on a species of the pepper-tree, called fagara, whose silk, remarkable for strength, washes like linen, and is not apt to be greased.

The progress of this article of luxury in Europe, after it had been introduced from Asia by two monks who brought worms to Constantinople, was very slow. There, and in Greece, it continued little noticed by the rest of Europe, from the year 551 of the christian æra, till Roger II, king of Sicily, pillaged Athens, A. D. 1130, and brought silk-worms to Palermo. From thence they were speedily conveyed to Italy and Spain; but, till the reign of Queen Elizabeth.

Elizabeth, filk-stockings were unknown in England; and with respect to Scotland, there is in being a M S. letter from James VI. to the Earl of Mar, requesting the loan of a pair, in which the Earl had appeared at court, because he was going to give audience to the French ambassador.

Silk is certainly the most considerable article produced in the province of Valencia, being nearly equal to all the rest together, and, if properly encouraged, would yield inexhaustible treasures to this kingdom; for no one, who has seen the Spaniards on the sea-coast, can think them lazy, and as for soil, for climate, and for local advantages, sew countries, if any, can be compared to this.

The land in this fertile valley never rests; for no sooner is one crop removed, than the sarmer begins to prepare it for another. They plough with one horse, and never attempt any thing more than to pulverise the soil; for which purpose their implement is admirably calculated, considering that they move the earth eight or ten times a year. In this kind of husbandry they have neither occasion to turn the sod, nor

rive no advantage from the coulter, the fin, and the mouldboard of our ploughs. Whilst I was passing through the valley, and in my excursions round the city, I obferved them earthing up their maize with hoes larger than our common spades. This instrument is well adapted to their soil, their culture, and their crops. In this operation they work hard, and make dispatch.

The beds, into which they divide the land, are very large and perfectly flat. The water covers the whole furface, stagnates for a few days, and is then discharged.

To shew the exceeding fertility of this vale, I shall subjoin a concise description of the crops, with respect to the time of sowing and of reaping, which will point out their succession, and I shall give the medium produce of wheat, barley, oats, Indian corn, and rice, in proportion to the feed.

Wheat is put into the ground the beginning of November, and is reaped the middle of June, when they obtain from twenty to forty for one.

Barley is fown in October, and in May they

receive from eighteen to twenty-four for one.

Oats are in the ground from the middle of October to the middle of June, and yield from twenty to thirty for one.

Maize follows the barley, as the second crop in the same year, and with a favourable season gives, at the end of October, a hundred for one.

Rice, commonly sown about the first of April, is transplanted in June; and in October rewards the farmer forty fold in proportion to his seed.

Garbanzos (the cicer of Linnæus) are drilled about the month of January, and come off the ground the latter end of June.

Guisantes (pisum sativum) occupy the land from September to April and May.

Beans may be put into the ground, either early in the autumn, or in the beginning of the year.

Hemp feed is scattered on the land in April, and is cleared about the middle of July.

The intermediate crops are, cabbages, cauliflowers, carrots, parsneps, French beans, leeks, garlick, onions, turnips, artichokes,

tomatos,

tomatos, lettuces, capficums, cucumbers, melons, four species of the calabaza (cucurbita laginaria) and sandias (a species likewise of cucurbita) with a variety of esculents, whose names do not occur to me.

Thus, with a warm fun, plenty of water, and a rich choice of crops, suited to every season of the year, the grateful earth repays the labour of the husbandman at least three times in the course of twelve or thirteen months.

The rock, wherever it appears in this vicinity, is calcarious. At Picacente, two leagues from the city, clean chalk abounds. Limestone and good marble are procured from all the mountains; and it is worthy to be noticed, that Mr. Bowles discovered quicksilver in calcarious rock, both here and near to San Felipe. How far the connection holds between these substances in other countries I am not competent to say; but in Spain, as I conceive, no instance has been known of cinnabar, either in granite or in schift.

The recommendation with which Count Florida Blanca was pleafed to honour me, was to the Duke of Crillon, governor and captain general of the province. Under his protection I could not be otherwise than happy. I had access to him at all hours, dined with him almost every day; and when he was at leisure, I enjoyed the pleasure of his conversation; but when business called for his attention, he turned me over to the ladies. Here I met with the principal people of Valencia, who were either invited to his table in the middle of the day, or frequented the tertulia in the evening.

Among the remarkable characters I met with at the palace, the most singular was a little boy under training at a convent for the pulpit, who was sent for, that I might have an opportunity of seeing him. He was not more than twelve years of age; yet his judgment, memory, and imagination were so mature, that without any special preparation, he was able to expatiate with propriety on whatever subject was proposed to him; and such were his natural powers as an orator, that his periods were harmonious, his expression nervous, his delivery graceful, and his argu-

ments

ments well chosen. Although the room was filled with genteel company, he was not abashed; nor did his attention appear to be distracted by the variety of objects and amusements in which they were engaged. Upon enquiry, I found that the fathers of his convent, perceiving him to be a boy of singular abilities, had taken infinite pains with his education.

The favourite amusement of the duke is whist; but as he had never more than one table, the visitors in general joined in conversation. This was much more agreeable than the custom of some Spanish families, to make all their company sit down at one long table to spend the whole evening at some game that gives no employment, either to the memory, the judgment, or to any one of the mental faculties. The game they usually adopt is lottery.

Whenever any remarkable person came to the tertulia, the duke had the goodness to present me to him. As an ecclesiastic, I wished to be introduced to the archbishop, but he was not in town: he lived retired in the country. My curiosity was excited strongly by the various and discor-

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dant characters given me of this prelate by those to whom I had applied for infor-Some described him as a good mation. fort of man, but rather too fevere; others represented him as a monk, secluded from the world, austere in the extreme, and perfectly a misanthrope.

No fooner had I mentioned to the duke my defire of being introduced by a letter to this prelate, than he obligingly engaged to do more than I requested; for he sent over, made an appointment to spend a day with him at his country feat, and conveyed me thither in his carriage.

In the way we passed through Burjafot, where the Romans had their fubterranean granaries. Thirty-feven of these still remain, and are filled with corn for the use of the city.

When we arrived at the archbishop's homely habitation, he received us with politeness, and I was delighted to find in the good old man all that eafe and affability, that mildness and gentleness of manner, which became his dignity and age. from being morose, he was cheerful and engaging in his conversation, uncommonly

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sensible and well informed. Being fond of study, he avoided the interruptions inevitable in such a city as Valencia; and, as a man of uncommon piety, he courted solitude; yet he was attentive to all the duties of his office, and occasionally entertained his friends. In a word, he appeared to me precisely what a bishop ought to be.

As we returned, converfing with the duke on the satisfaction I had received from this short acquaintance with the archbishop, he confirmed my ideas of his character, and well accounted for his having been reprefented by fome as uncommonly fevere. This prelate, confidering Valencia as a commercial city, had opposed the construction of a theatre, because he thought both the diffipation and the expence attendant on the diversions of the stage, unfriendly to the prosperity of trade. The duke himfelf feemed inclined to favour this opinion; at least he agreed to compromise the matter, and instead of being established in the city, he suffered the players to pitch their tents on the fea-fide, at the village of the Gras, within a moderate distance from Valencia.

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Thither

Thither the duke had the goodness to carry me, with his dutchefs and his amiable daughter. The theatre is a spacious edifice, constructed like a barn, but covered only with esparto mats, which, as they have no need to be afraid of rain, is fully fufficient for the purpose. The company was genteel, and the actors were by no means contemptible. They represented that afternoon the Deluge, in which the devil was the principal character. The piece itfelf was highly ludicrous; and when the curtain dropped, the devil, with a daughterin-law of Noah, at the request of the dutchess, concluded the whole by dancing a fandango.

Under fuch powerful protection as that of the duke of Crillon, who, in authority and stile of living, is little less than viceroy, I saw every thing to the greatest possible advantage. This was peculiarly serviceable, when the knights of the Royal Maestranza celebrated a festival in honour of the infant don Antonio. Of these knights, four companies, consisting of the principal nobility, are established in the four cities of Granada, Seville, Ronda, and Valencia, each distinguished by a peculiar uniform. Like

the feudal barons, they are bound, with their vassals, to attend the king in perfon when he goes to war. Their military exercise is derived from remote antiquity. On this festival they affembled in a spacious area, inclosed for the occasion; at the upper end of which was the picture of the fovereign, behind a curtain. The knights, mounted on beautiful and high bred Andalufian horses, marched in order to the picture; the curtain was withdrawn; and instantly every fword was brandished in the Having thus paid their homage to the fovereign, they performed, with furprifing regularity, their various evolutions, in the fame manner and form as was done at This being accomplished, they Aranjuez. prepared themselves for other feats of activity and skill. For this purpose, an image of Minerva, placed near the gallery, in which the ladies were affembled, held one riband, whilst another, opposite to this, with a bunch of flowers, was suspended from the beak of an eagle. Things being thus arranged, each of the knights, clapping spurs to his horse, and forcing him to full speed, directed the point of his well

T 3 poised poised lance with such address, that sew of them failed to pierce both ribands at their first attempts. After this atchievement, twice performed by every knight, they again repeated their evolutions; saluted the picture of the king once more; the curtain was drawn; and all retired in the same order, in which they had arrived, with trumpets, kettle-drums, and martial music.

This being the festival of St Anthony of Padua; in honour of the day, and as a compliment to the infant don Antonio, who is bermano mayor, that is, grand master, or president of this military order, his lieutenant, don Antonio Salabert, gave a refresco

in the evening.

The company confisted of fix hundred, selected from the highest classes in Valencia. The gentlemen were assembled in one room; in the other the ladies sat arranged in order, like tulips in a garden. As I had the honour to attend the captain general, I partook of his peculiar privilege, and, with him, paid a visit to the ladies. It was a pleasing sight. They were all in gala, many of them elegantly dressed, and adorned in a splendid manner with pearls, with gold, and

and with the most costly gems. When they had been for some time assembled, servants entered, first with a variety of ices; then, after considerable intervals, with cakes and chocolate; and finally, with cold water. The ladies were all first served, then the gentlemen partook of a similar refresco. By the time that these had sinished their refreshment, it was more than midnight, although we had assembled early in the evening. The servants then retired, a band of music, vocal and instrumental, entered, and performed a little opera, written for the occasion, called Peace between Mars and Cupid.

Such refrescos are given by people of high fashion on their nuptial day; and such a one was given by the brother of count Florida Blanca, whilst I was at Madrid; but as I had not the honour to be present on that occasion, I felt the highest satisfaction in the fight of this.

After I had been some days at Valencia; at the earnest request of the duke, I visited a friend, for whom he had a particular esteem, in order to determine a dispute between the attending physician and a young chirurgeon, who occasionally saw him. As

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the latter was under the immediate protection of the duke, it was partly with a view to fave his credit, that I was defired to give my judgment on the case. The duke, therefore, conveyed me in his carriage to the habitation of his friend, and the young chirurgeon joined the party. The patient complained of a cough, accompanied with spitting; and the question to be determined was, whether the disease were phthisis, or merely a catarrh?

My enquiries were confined to the usual symptoms of a hectic; and not finding, from the account the patient gave me of himself, any one of these, I did not hesitate to pronounce him free from phthisis, to the satisfaction of the duke, and the no small triumph of the chirurgeon.

But when I returned, towards the close of day; I had reason, from the increase of sever, and from the characteristic slushing of his cheeks, to think that he had, to obtain a savourable opinion, concealed many of his symptoms. I requested, therefore, that I might have a conference with the physician, and was happy to find that he had expressed the same defire. When

we had the fatisfaction of meeting the next day in the presence of his patient, he directed his discourse to me in Latin, and with the greatest fluency gave me the hiftory of this disease, which began with pleurify, and was in its progress attended with a remittent fever, night sweats, and the other characteristic symptoms of a hectic. It was then too clear, that the patient had deceived himself, and that the meek and too easily brow-beaten physician was well founded in his diagnosis. He thanked me with expressions of humility for giving him the meeting; but he evidently wanted fpirit to enjoy his triumph. I found him modest, yet sensible, and for a Spanish physician, well informed; that is, acquainted with the works of Boerhaave, but not with modern publications.

I have observed in general, that the phyficians, with whom I have had occasion to converse, are disciples of their favourite doctor Piquer, who denied, or at least doubted of, the circulation of the blood. Yet they begin to get acquainted with the names of Van Swieten, Hoffmann, Sauvage, Gaubius, de Haen, and Cullen. They

have

have indeed laboured under the greatest disadvantages in their education, and in the want of encouragement when they entered upon practice, receiving little money, and less honour, in the way of their profession. In their medical classes they had no diffections, no experiments in chemistry, and for botany they were unacquainted with These defects will now be re-Linnæus. medied. But even in the present day, the fee of the physician is, two pence from the tradesman, ten pence from the man of fashion, and nothing from the poor. Some of the noble families agree with a physician by the year, paying him annually fourfcore reals, that is, fixteen shillings, for his attendance on them and on their families.

They all acknowledge that the monks are more liberal than people of the first fashion, more especially if confidence and secresy are needful.

In point of honour, no class of citizens meets with less respect than the physicians; but in proportion as the nation shall acquire wealth, they will rise up in consequence, and be regarded with esteem.

Of one thing, which in Spain is required quired from chirurgeons and physicians, I have never been able to find any who could give me a fatisfactory account. Before they enter into their profession, they are obliged to swear, that they will defend the immaculate conception of the Blessed Virgin. This requisition is the more extraordinary, because that point is not univerfally agreed upon, even between catholics themselves; yet many centuriés may pass before the medical tribe will be freed from this unreasonable imposition. To give due weight to the fanction of an oath, every country should purge away those, which are become obfolete, but more especially such as are univerfally regarded as abfurd.

Conversing with several physicians in this part of Spain, who have made use of the cicuta with manifest advantage in cases of glandular obstructions, I was led to a conjecture, that the virtues of this plant depend much on the soil and climate in which it is produced. In England, as I imagine, the beneficial effects have not answered the expectations raised by the report of the adventurous physician, by whom it was first recommended to the notice of the world.

world. Something fimilar is found in Spain; for in the province of Valencia, the cicuta has been given fuccessfully for tumors supposed to be cancerous; whereas about Madrid they have derived no advantage from its use: and it has been observed that in Castille, the cicuta is aromatic, sweet, and free from every nauseous quality; but in Valencia, and all along the eastern coast of Spain, it is fetid and loathfome, affects the head, and, in large dofes, proves a powerful emetic. We may readily conceive that, where the fenfible qualities are fo various and discordant, the medical effects cannot perfectly agree. The physicians on this coast increase their dose from a few grains of the extract up to half an ounce.

The air and climate of Valencia would be highly beneficial to the English in a variety of cases, more especially for nervous, hysterical, and hypocondriac disorders, for shattered constitutions, and for those who suffer either by a redundancy, or a suppression of the bile. These would find the oranges and grapes most powerful detergents: and every article of food, whether animal

animal or vegetable, being light and easy of digestion; the most delicate stomach would never feel oppressed. In our island these patients suffer by humidity; but in Valencia, such is the dryness of the air, that sugar and salt may be constantly exposed without contracting the least sign of moisture.

As a winter's refidence, and throughout the fpring, no city can be more delightful than Valencia; and I believe few cities can boast of more agreeable society. Had I fought amusement, I might have had introductions to as many pleasant families as a stranger could wish to cultivate; but as information was the first object of my purfuit, I confined myself chiefly to the duke of Crillon's, where every diftinguished character reforted, and to M. Thomas Vague's, from whom, as well as from his amiable nephew, don Joseph Boneli, I was certain of receiving the most accurate accounts of every thing relating to the agriculture, manufactures, and commerce of the country. Had the count de Lumiaris been at leifure to bestow upon me more of his conversation, my happiness at Valencia would have been complete.

The government of Valencia is not diftinguished from that of other provinces. The captain general presides in the civil, criminal, and military courts, and the intendant has the sole authority in matters of sinance. The city is governed by its own corregidor, assisted by two alcaldes mayores and twenty-four regidors, with sour deputies from the commons, and two syndics.

The court of the inquisition has three judges, with a nuncio extraordinary, and twenty-two fecretaries del fecreto, who are paid out of the confiscated effects of perfons condemned by their tribunal.

The taxes are heavy in Valencia. Every thing entering the city, even cloths made at Madrid, and filk for the manufacturers, and all commodities without distinction, pay eight per cent. upon their value. But the province at large is free from some oppressive contributions, to which others continue subject, paying fix hundred twelve thousand and twenty-eight pesos, or nine-ty-one thousand eight hundred and sour pounds, as an equivalent for the provincial rents, purveyance, and forage for the army, with the royal monopolies of brandy and of falt.

falt. To this commutation may be in part attributed the prosperous condition of the whole kingdom of Valencia.

This city was formerly oppressed by the nobility; but after the rebellion of 1520, when all the nobles were expelled, and thirteen regidors were chosen from the commons to render impartial justice; although in this conflict the commons were ultimately subdued, and had the mortification to see all their leaders either slain in the field of battle, or by the hands of the executioner suffering cruel torments and an ignominious death; yet from that period their tyrants were impressed with terror, and became cautious how they should rekindle a flame, by which they themselves had nearly been consumed.

They have at present little more to ask than freedom to their commerce. With this, and with a certainty that the peace and protection they enjoy, shall not be subject to the caprices of a weak sovereign, or of a wicked minister, Valencia would soon be ranked among the most commercial cities of the continent. The weights and measures of this province differ much from those received in other parts of Spain. The vara is longer than that of Castille; twelve of the former being equal to thirteen of the latter. Their celemines bear the same proportion.

In agriculture, nine palms make a braza, and twenty brazas, equal to forty-one varas, make the cord with which they measure land. Two hundred square brazas make a fanega, and six fanegas, equal to about half an acre, make a cahizada. Six cahizadas make a yugada.

In corn measure, the cahiz contains twelve barchillas, or forty-eight celemines.

The carga of wine contains fifteen arrobas, or cantaras, and is equal to fixty azumbres; but the carga of oil is only twelve arrobas.

The pound confifts of twelve, fixteen, eighteen, or thirty-fix ounces, according to the article in question, whether bread, fresh fish, salt fish, or butcher's meat. In like manner, the arroba may be of thirty, of thirty-two, or thirty-fix pounds, each pound being twelve ounces.

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When I was about to leave Valencia, I enquired the price of provisions, which I found to be as undermentioned, the pound being of thirty-fix ounces:

Beef, twenty quartos; veal, twenty-fix. Mutton and pork, thirty-fix. Bread, four quartos for fixteen ounces.

JOURNEY

FROM

VALENCIA TO BARCELONA.

HEN I was making arrangements for my departure from Valencia, an amiable young friend, Don Joseph Boneli, was so polite and attentive as to offer me his company, and a place in his carriage, as far as Morviedro. This offer I gladly accepted; yet I quitted, with much regret, a city in which I had enjoyed the most agreeable society.

June 21, we set forward on our journey. In the way we examined a stately edifice, called the convent de los Reyes, erected and endowed by the last Duke of Calabria for his monument, and as a provision for sixty monks, who are bound to say mass daily for the repose of his soul. For this service

they

they have an ample recompense, enjoying a revenue, by their own confession, of twenty thousand pesos, equal to three thousand pounds, a year, but supposed to be considerably more.

Their convent is truly magnificent; the marble pillars are most beautiful; their pictures are many of them excellent, painted chiefly by Juanes, Ribalta, and Zarinena. The treasures of their church are far removed from mediocrity; but that which is most worthy of attention is a collection of manuscripts, transmitted to the founder from his remote progenitors, confisting of two hundred and fifty volumes in good prefervation, and highly illuminated, like the best of the old Roman missals. They are chiefly the works of the fathers, with many of the claffics, among which is an elegant copy of Livy, in five volumes folio; the two first in Latin, the others in Italian.

At the distance of about three leagues from the city is Puzol, where the archbishop has a celebrated garden. We turned aside to view it, but were much disappointed in our expectations. In the infancy of science, this humble attempt deserved com-

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mendation:

mendation; but in the present day it has little to attract attention.

All the way from Valencia to Morviedro, the lower lands are watered, and produce much filk, wheat, barley, maize, and alfalfa, with a variety of leguminous plants. The higher lands are shaded by the algarrobo, the olive, and the vine. The whole country is well inhabited, and scarcely can you travel half a league without passing through a village.

Morviedro is a confiderable city, containing five thousand one hundred and twenty-fix inhabitants, who are strangers to manufactures, and depend altogether for subfistence on the produce of the soil. The commerce of this city is chiefly in oil, raifins, wine, and brandy. The wine is delicate, and far from dear. Mr. Thomas Vague delivers it aboard at fifty-four pefos the ton, which is forty shillings and fix pence the hogshead. To make one hogshead of brandy, they commonly distil four hogsheads of ordinary wine, and when diftilled to what is denominated Holland's proof, it is fold for exportation at two pounds seventeen shillings the hogshead.

The

The antiquities of Morviedro, formerly Saguntum, have been often and well defcribed by others. They are in a stile of such magnificence, that even they who have no taste for antiquities, as such, must be pleased with these.

The theatre, vast in its dimensions, and capable of receiving near ten thousand people, is hewn out of the rock, and commands a most extensive prospect of the subjacent country, which is bounded by the sea.

Ascending to the summit of the mountain, and looking to the south, the eye is ravished with the sight of Valencia, standing like a queen surrounded by her subjects. The villages appear to be innumerable, and all the intermediate country is one continued garden.

June 22, in the morning, I took leave of my valuable friend Boneli, and proceeded on my journey in a calecine, attended only by the guide, to whom the little vehicle belonged, passing along the Huerta, with the sea on the right, and high lime-stone mountains on the left. From this Huerta, having crossed a mountain near the sea, we entered another, which is extensive, well watered, and, like the former, bounded by distant mountains to the left. On the declivity of one of them stands Villa Vieja, with its elevated castle, famous for hot springs. The rocks are gypsum and lime-stone.

The vallies produce grain, figs, grapes, olives, and filk, in great abundance.

In the morning I passed through Nules, a city containing three thousand three hundred and thirty-eight souls. It is a marquisate now in abeyance, the title being disputed by seventeen claimants. Within the walls are two convents, two hermitages, and a parish church. One of the convents, although sinished thirty years, is not yet inhabited, consequently the revenue is disposed of by the archbishop, and applied to pious uses.

The city is governed by two alcaldes, the one stiled mayor, the other menor, assisted by four regidors, who continue only for a year and then choose their successors, subject to the approbation of the marquis; or rather, they name six for the office of alcalde, and eight for regidors, out of which the marquis makes choice of the proper number.

number. In the royal boroughs, the magistrates, in like manner, nominate fit perfons to fucceed them, but then the royal audiencia, or supreme court of justice and civil government in Valencia, from this return select the persons best qualified, or most approved by government, to fill the vacant offices. To this city belong three dependant villages, whose inhabitants are vicinos, or citizens of Nules.

I observed here a number of caves, said to be five hundred, from eight to twelve feet diameter, and from twelve to twenty deep. They are funk in the limestone rock, and were defigned for granaries. That purpose they at present serve, and the collector of the tithes makes use of thirty for depositing his wheat. He informed me, that he rented the tithes of corn, wine, and oil; but he lamented, that he had no claim on either filk or garlic, these being free from tithe, which he the more feverely felt, because the produce of garlic is nearly equal to half the value of the corn. He told me, that he was administrator for the bank of S. Charles in supplying the troops with

U 4 wheat wheat and barley; and from him I find, that the bank has a profitable bargain.

The duke of Infantada has confiderable possessions in this vicinity, all of them in administration, that is, cultivated on his account, but chiefly for the advantage of his stewards, who are the greatest gainers.

Soon after dinner we passed through Villa Real, a city of five thousand six hundred and sifty-eight inhabitants. Proceeding on our way towards Castellon de la Plana, we crossed the Mijares, which supplies water to the justly celebrated aqueduct of Almasora,

Thus far the whole extent of road from Valencia is thirty feet wide, well formed, and in excellent condition. The foil is chiefly clay; the crops on the lower lands, wheat, barley, maize, leguminous plants, and melons, with mulberry trees in great abundance; the more elevated lands have olives; and the highest are abandoned to the algarrobo. Their plough is ill-suited to the foil, being the light one last described, drawn by one horse in shafts.

Castellon de la Plana reckons ten thousand seven

feven hundred and thirty-three inhabitants, with one parish church, and six convents, The chapel of la Sangre is light, elegant, and well proportioned, sitted up entirely by a young artist, who is indebted to himself alone for the refinement of his taste, because he had no instructor, nor one good model in the place, by which he might im-

prove.

Few villages can boast a richer collection of pictures. The major part are by Francisco Ribalta, who was a native of Castellon, and among those, the most admired are, his Purgatory, at the altar of las Animas; his S, Eloy and S. Lucia, in the church of the Augustins; S. Roque, in the Hermita or chapel dedicated to him, in which that saint is represented sitting under a tree, looking up to heaven, and receiving a cake of bread, brought to him by a dog. Beside these, we find several others equally worthy of admiration in the church of the Dominicans.

In the chapel of la Sangre are preserved fome good pictures of Bergara; and the Capuchins are much indebted to Zurbaran for some of his best works.

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At the altar of the great church is the Assumption of the Blessed Virgin, by Carlo Maratti.

When I arrived at Castellon, I made inquiries about the aqueduct of Almasora, by which all this extensive plain receives water from the Mijares. They informed me, that I had croffed it foon after I paffed the new bridge over that river, but as it is a tunnel almost the whole distance from S. Quiteria to Almasora, we crossed it without being fenfible that we had done fo. Confidering that this tunnel is through a rock of limestone, and that it was executed in the year 1240, it deserves to be regarded as stupendous. In comparison with this, how contemptible is the Montagne Percée, in Languedoc, for which Lewis XIV. received the most fulsome adulation!

This useful aqueduct of Almasora has been attributed both to the Romans and to the Moors; but I am well informed that Jayme el Conquistador is alone entitled to the praise.

June 23. At five in the morning we left Castellon, and descending to a plain, we approached proached the mountains and the sea, till we came to las Casas de Venicase. Here I stopped a sew minutes to admire an elegant church lately built by my learned friend Don F. P. Bayer, designed, as I imagine, for the protection of his monument.

From Venicase we ascended between the mountains, on which I observed rosemary, thyme, lavender, the palmito, juniper, and algarrobo, with the beautiful nerium oleander in abundance. The American aloe in the vallies, every where in blossom, with its losty pyramid of slorets rising to the height of more than twenty seet, attracted particular attention.

At a little distance on the right we discovered Oropesa, with its castle, occupying the summit of a pointed rock. In this an alcaid is stationed with a garrison, and two pieces of cannon, to protect the country from the incursions of the Algerines.

Under this fortress extends a plain, covered every where with vines or grain. A few almonds, figs, and algarrobos, serve to shew what the country might produce; but unfortunately, the industry of the farmer is not properly encouraged, and the whole plain

plain continues destitute of water, although by norias it might be abundantly

supplied.

At eleven in the forenoon we took refreshment in a venta belonging to the monks of S. Antonio of Valencia. Here the norias evidently prove that water may be easily procured, and that when procured it never fails producing the most luxuriant crops.

All the villages in this vicinity belong to the bishop of Tortosa, who claims and exercises a temporal dominion, appointing the magistrates, and receiving three thirty-sevenths of their wheat, barley, and oil, with three-fortieths of their wine. Beside these dues, the farmer pays one-thirty-seventh of his grain, and one in forty of his wine, to the curate of the parish. Some articles are free, as for instance, in one village nothing is paid for maize; in the district of another, the same immunity is claimed for pigs and algarrobos.

Here the travelling sheep of Arragon find pasture in the winter, and pay to the parish of Cavanes eighteen hundred pesos, or two hundred and seventy pounds a year,

beside

beside making satisfaction for the injury they may do the wheat.

Many villages have been totally ruined by the depredations of the Moors, and the inhabitants have fought refuge in Cavanes, or in other places more easy of defence.

Torreblanca is going to decay, but Alcala de Chivet, or Gifvert, having received inhabitants from many deferted villages, now contains feven hundred families. The distance of this town from Torreblanca is called one league; but as we were more than two hours on the road, I reckon the league to be at least seven miles.

Alcala belongs to the military order of Montesa, and was given to the late infant Don Louis; but at his death it reverted to the crown. The beneficiary or military tenant receives the tithes, and nominates the magistrates. The tithes, as they are called, are not the same to all the inhabitants, because the farmers from many abandoned villages, having sought resuge and protection here, they continue to pay the same proportion as was exacted from them, previous to their removal. Hence, whilst some are acquitted for a tenth, others

are obliged to pay an eighth, a feventh, or even three-nineteenths.

I was much pleased with the parish church. The front is elegant, adorned with columns and numerous images, and the infide, confisting of three iles, and one great dome with eight lesser ones, is beautifully fitted up, and furnished with good pictures. Ample provision is made for the support of fourteen priests, who daily officiate at eleven altars.

The common lands are depastured by the sheep of Arragon, yet the market is not supplied with mutton, and as for beef it is rarely seen in Alcala. Bread is sold at four quartos for eleven ounces.

June 24, at four in the morning, we renewed our journey, and descending between two elevated chains of limestone mountains, came to Benicarlo, on the sea-coast, at the distance of four leagues from Alcala. The soil is peculiarly favourable for the cultivation of the vine, and produces a generous wine, much used for enriching the poorer wines in the neighbourhood of Bourdeaux, for the purpose of making claret. Mr. Macdonell sells this wine at thirty-

five

five pesos, or five guineas, the pipe; and a most elegant white wine, made by simple pressure, for thirty-four pesos the hog-shead, or ten pounds four shillings the pipe. This delicate wine is all disposed of before Christmas. Brandy is fold for the same price as the red wine.

This city, containing three thousand and fixty-three inhabitants, belongs to the knights of Montesa, who nominate the magistrates and claim the tithes. Wine pays four thirty-fourths, but all other articles a tenth, excepting maize and algarrobos, which are free. Of the tithe of wine a canon of Tortosa takes one half, the military tenant and the curate each enjoy a quarter. In all this country the greatest variety is found in the proportion of the tithe, and in the exemptions enjoyed by different parishes. No two perfectly agree in one common rule.

From Benicarlo we traversed an extensive plain, with high mountains on our left, and on our right the sea. As we approached the confines, cultivation ceased; but no sooner had we entered Catalonia, than we

again

again admired a well watered country, and luxuriant crops. The rich vallies produce wheat, barley, maize, hemp, flax, figs, walnuts, filk; the higher lands, olives and wine. It is Sunday; yet the farmers are at work.

In the way we took notice of three monumental croffes, of which the most recent marked the spot where a traveller had been robbed and murdered the preceding year.

When we arrived at Ulldecona I was not forry to find that my guide intended to pass through it; for it is a most miserable village. Yet, miserable as it is, it is inclosed by walls, and maintains two convents. At the distance of seven hours from Benicarlo we took up our lodging at a venta.

All the mountains on our left, whilst we were travelling by the margin of the sea, and all those we traversed, when passing more inland, from the neighbourhood of Morviedro to Tortosa, are limestone. On these I noticed, as we approached the district of Tortosa, many monumental crosses; but not one of these was of a recent date.

The Huerta of Tortosa is most delightful. Far as the eye can reach, you look down upon a plain covered with vines, olives, figs, pomegranates, apricots, mulberries, and all kinds of grain; and through this fertile vale you trace the meanderings of the Ebro, which is here wide and navigable.

Tortofa, venerable for its antiquity, now contains ten thousand seven hundred and eight inhabitants, with ten convents, and

five parish churches.

The cathedral is near the river, built under the protection of a castle. The front is Ionic, with massive pillars, some of which are of single stones, as are all those in the chapel of N. Senora de la Cinta. The whole edifice is void of taste, and the interior is loaded with preposterous ornaments.

In the cloister I took notice of a chapel, which carries marks of the most remote antiquity, with two little columns of porphyry, the one red, the other green, which look as if they had been made before the flood. The custodia of solid silver, weighing fourteen arrobas, although not so an-

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cient, is more to be admired for age than for the beauty of its workmanship.

The bishop has a revenue of forty thoufand ducats, or nearly four thousand four hundred pounds per annum. Twelve dignitaries have each from a thousand to fifteen hundred pounds a year. Nineteen canons receive each a thousand pesos, or one hundred and fifty pounds. Beside these, for the service of the cathedral, they have thirty-four prebendaries and minor canons,

and forty chaplains.

The funda, or hotel, furnished in a stile fuperior to what I had expected, and much beyond the ventas and posadas I had lately feen, appeared comfortable at least, if not to be admired for its elegance. The landlord, an Italian, had the air and manners of an inn-keeper in France. He furnished the dinner, and fet the dishes on the table. First he brought in soup, then a bouilli of bull beef; after that a fricassee of garlic and liver, followed by what he called a fricandeau; then, by way of rôti, a shoulder of lamb, or rather the bones covered with a skin, for I could discover no flesh upon the bones. These dishes were followed by fallad,

fallad, and a deffert of apricots and almonds. After I had tasted the fricasse; when he introduced the subsequent dishes, he exclaimed with an air of triumph, " Allons, courage, monsieur;" and after all, with a tone of the highest satisfaction, " Eb bien, avez vous bien diné?" I could not do less than answer, " Le mieux du monde."

The maid fervant, who waited at table, was no less remarkable than the master in her way. She was a gitana, or gipfy, pretty, and elegantly made, with black hair, black eyes, and much animation in her countenance. Exceedingly attentive and alert, she moved like the wind to bring plates, supply wine and water, and, with a napkin, to keep off innumerable flies. The wine, to cool it, had been immersed in water; but when the bottle was more than half exhausted, it began to float. Seeing this, the girl, with wonderful fimplicity, made repeated efforts to fink it in the water; and when she found it still persisting to emerge, she betrayed strongly, disappointment and furprise.

Gipfies are very numerous on the fouthern and eastern coasts of Spain; but I never

X 2 faw

faw them strolling as with us in England. I learn from Count Campomanes, that they amounted to more than ten thousand, when, in the preceding reign, they were seized in one day, and confined to prifons. Government soon grew weary of maintaining such a multitude in idleness, and discharged them all. Yet their capture, with subsequent regulations, had this good effect, that they no longer wandered in companies as beggars, nor frequented, as usual, the deserted forests, to live by robbery and plunder.

At the time when they were taken into custody, many industrious families, by the abuse of the royal edict, and under pretence that they descended from parents who had been of the gipsy race, were plundered, and reduced to poverty, without redress.

When we left Tortosa, we proceeded for two leagues along the Huerta, then ascending through the gorges of the mountains, instead of a rich valley, highly cultivated, and productive of every thing useful to the human race, we saw nothing for nine long leagues but dreary mountains, desolate and waste, covered only with palmito.

mito, coscoja, and a few other vegetables, all stunted in their growth.

The road is execrable; but as the rock is mostly bare, I had, from time to time, occasion to observe some bivalve, or other extraneous sossil, in the limestone. Succeeding travellers will find a more comfortable route by a new road now making nearer to the sea, shorter by many miles, and almost level, as far as Tarragona.

Among the mountains, in one little cultivated spot, is a miserable village, called Perello, which was formerly a defenced city. There we took up our lodging for the Looking down from thence, the night. country before us appeared to be a wide extended plain, furrounded by high mountains, excepting to the east, where it is open to the sea; but as we descended, we discovered pointed hills innumerable, with deep ravins, and contracted vallies. At the diftance of five leagues from Perello, having climbed a steep ascent, under the cannon of a strong fort, which is built on the summit of a rock, we descended to a venta near the sea, called Hospitalet.

The plough here differs from those I X 3 have

have remarked in other parts of Spain: it has neither coulter, fin, nor mouldboard, nor yet wooden pins to supply that defect; but instead of these, the tail of the share is divided, so as to perform the same operation as the heel and ground wrist of our ploughs. The retch is divided to serve the purpose of a mortice, and receive the handle; and as the tillage is with one mule, the beam terminates in shafts.

At the distance of a league from Hospitalet we entered a rich plain, bounded to the left by mountains, but on the right open to the fea; and for many leagues we travelled through one continued garden, occupied by numerous villages, the lofty towers of whose churches, to the east of us, reflected the rays of the fetting fun. This fertile vale, called Campo de Tarragona, produces in quick fuccession, wheat, barley, maize, beans, peas, garvanzos, French-beans, leeks, onions, garlic, melons, cucumbers, and calabash, artichokes, olives, oil, wine, almonds, pomegranates, figs, apricots, algarrobos, flax, hemp, filk, alfalfa, and a variety of herbs, some for fodder, others for the service of the table.

Near

Near to Tarragona the olive trees were cut down to make room for vines, at a time when brandy happened to be in great request, and fince the price of that commodity has fallen, the olive yards have not been as yet renewed.

Tarragona, of all the cities in Spain, would give the most agreeable employment to the antiquarian. Here he would admire the remains of an amphitheatre, of a theatre, of a circus, of the palace of Augustus, of temples, and of an extensive aqueduct, with fortifications, which, although of a more recent date, are ancient. The aqueduct brings water to the city from the distance of seven leagues, and crosses a deep ravin over a bridge which is feven hundred feet long, and more than one hundred high, with eleven arches below, and twenty-five It was repaired at the fole expence of the late archbishop.

The cathedral, a massive pile, was built A. D. 1117, and is therefore venerable for antiquity; but in the interior, one chapel only, dedicated to Santa Tecla, is worthy of attention. In this the dome and columns are most beautiful, and serve to shew what

X 4

valuable

valuable marbles are to be procured in this vicinity.

The archbishop enjoys a revenue of about four thousand pounds a year. Twelve dignitaries, twenty-four canons, as many minor canons, and forty chaplains, are well provided for at present, and will in future have increasing incomes; because the king means to reduce their number, as vacancies occur, and add considerably to the revenue of the survivors; improving at the same time, and in the same proportion, the royal third.

Nothing can be more politic than this measure; for thus quietly, and without clamour, the useless wealth of the cathedrals will be restored to the community, and gradually relieve the distresses of the state. Whenever the critical moment shall arrive, eleven convents at Tarragona will contribute their lands and treasures to the necessities of a sinking nation.

This city contains feven thousand five hundred souls at present; but whenever the canal of Arragon shall be navigable, the whole country will feel the influence of reviving viving commerce; and, among other cities, this may regain its ancient population.

Trade is now confined to wine and brandy; but for home consumption they

carry on a confiderable fishery.

To protect the inhabitants from the incursions of the Moors, they have erected batteries. These are the more needful, because the ancient fortifications are gone to ruin, and the Algerines have committed frequent depredations on this coast. Spain, indeed, has lately concluded a treaty with Algiers, but no one can conjecture how long the peace will last.

Beef is fold for twenty-one quartos the double pound of thirty-fix ounces, or about two pence halfpenny our pound.

Mutton is worth thirty-four, or about

four pence farthing.

June 27, leaving Tarragona, we passed over an extensive beach, covered with sishermen and nets; then, quitting the sea-shore, we traversed a well cultivated plain, found refreshment at Figretta, beyond which the road goes under a Roman arch, and at night we took up our lodging at Monjus.

In the way, I took notice that the land is chiefly tilled with cows, and admired every where the patient and laborious peafant unremittingly employed in the cultivation of his land, even when exposed to the full stroke of the mid-day sun.

Near to the numerous villages, through which we passed, I was delighted to observe the rich abundance of corn, olives, vines, sigs, almonds, mulberries, and complete hedges of pomegranate, now covered with its scarlet blossom.

As we proceeded, we discovered Montferrat, which at first appeared just rising up in the horizon, and almost lost in clouds; but as we advanced, we could more distinctly trace it stretching in the wide expanse, and bounding an extensive plain.

When we arrived at Monjus, the old man, who was master of the posada, was winnowing his wheat, after having trodden it on the area with his cattle. His first operation was to get out the straw by means of rakes; then he tossed the grain with a four pronged fork, in order to expose it to the wind. Having thus cleared

it from the chaff, he fifted it, then shogged it in closer sieves to separate the lighter seeds; yet, after all his pains and labour, I observed among his wheat, barley, oats, vetches of various species, cockle (agrostemma githaco) with other ponderous seeds, small gravel, and little clods of earth, such as we always find in wheat imported from every part of Spain.

What a pity is it, that in most of our counties, and in every part of France and Spain, farmers should be unacquainted with the winnowing machine, which, imported first from Holland, is used all over Scotland, and countenanced by our respectable Society of Arts! a drawing and description of this excellent machine, published by the Society in London, is highly worthy of attention, as being the only one by which any species of grain can be properly cleansed; I will not merely say for seed, but even for the market.

About Monjus, I took notice that all the corn, for want of carts, of waggons, and of cars, was brought home, not as in Devonshire and Cornwall, in bundles, hanging hanging against the horse's sides, but disposed on a square frame, and sastened on his back.

June 28. Having passed Villa franca de Panades, we had the satisfaction, once more, to travel on good roads, well formed and made, at a vast expence, through rocks, and over the deepest ravins, or the gorges of high mountains. Some of the bridges designed to form a junction between these, are most stupendous, and shew clearly the enterprising spirit of this laborious nation.

In many of their deepest cuts, through the interposing rock I took occasion to observe the strata. They are generally limestone, and incline towards the sea; but as I approached the Lobregat, I remarked, at a very considerable depth, thin strata of schist interposed between those of limestone.

The prospects in this part of Catalonia are most enchanting, and change at every step. Mountains are seen peeping over mountains, and the hills assume a pleasing variety of forms. Many are shaded with thick woods, many with luxuriant crops of

corn, and not a few lift up their rugged cliffs above the rest, and hide their heads among the clouds. Industry climbs among these rocks, and every spot where the plough can go, or the vine can fix its roots, is made productive, and abounds with either corn, or wine, or oil. In the vallies we see the peasants engaged in tillage, and with two strong oxen breaking up their fallows; where, by means of a coulter and a mould-board to a well constructed plough, they turn deep surrows, such as I had never before remarked in Spain.

As we approach Barcelona, all is in motion, and the whole road appears alive, with horses, mules, waggons, carts, and people, thronging to the market with their wares. No such activity, no such appearance of business is seen in any other of the provinces.

At fix in the evening we arrived, and I had the happiness of meeting my valuable friend the conful in good health.

Between Valencia and Barcelona, the posadas are tolerably good, but dear, when compared with other parts of Spain, excepting

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cepting only for the carriers. These pay twenty quartos, or less than six pence, for their supper, and have plenty of every thing, sish, butcher's meat, poultry, and good wine, with bread and garden stuff; but to a traveller every article is charged, and his bill seldom amounts to less than thirty reals.

RETURN TO BARCELONA.

I MMEDIATELY on my return to Barcelona, I paid my respects to the count of Asalto, captain general of the province, and governor of the city, with a letter from count Florida Blanca, which alone was sufficient to insure me an agreeable reception. This gentleman, distinguished for politeness, shewed me all possible attention, gave me the information I desired, and readily granted the only request I had occasion to make.

Through him I had the honour of being introduced to the bishop of the diocese, don Guvino de Valladares y Messa. I was the more solicitous for this honour, because the good prelate had been represented as a bigot, whose sole employment was to count his beads, and his only passion to live secluded

cluded from the world. My friends had affured me, that, as a protestant, I had no chance of being well received, and that, if from attention to the count, he should be inclined to shew civility, I should be disgusted with his coldness. At all events I was refolved to fee him, and I am happy that I did; for I not only found him easy of access, and more than commonly conversable, but fo far removed from bigotry, that, before I quitted him, he pressed me to return, and to flay fome days with him.

His refidence is two leagues from Barcelona, a little to the westward of Mongat, on a gentle declivity, open to the meridian fun, and looking down upon the fea.

The party with me on this vifit confifted of the grand vicar, and my friend don Nicolas Lasso the inquisitor. At the bishop's I had the happiness of meeting don Tomas de Lorenzana, who is brother to the archbishop of Toledo, and himself bishop of Gerona.

The meeting of two prelates is a phoenomenon in Spain, because the moment a minister of the altar accepts a mitre, he devotes his life wholly to the duties of his

office.

office, confines himself altogether to his diocese, and is lost both to his friends and to his family. On the present occasion, therefore, the visit of this prelate was neither in the way of ceremony nor of friendship, but to affish in the dedication of a temple.

I was much pleased with my visit, and flattered by the attention of these venerable They differ exceedingly in character, yet each appeared amiable in his way. The bishop of Gerona, although advanced in years, is lively and volatile, full of wit and humour. The bishop of Barcelona is plaćid and grave, yet pleasant and agreeable, and peculiarly diftinguished for benevolence, fond of retirement, and much attached to books. He entertained us well, and feemed pleased with this little interruption to his studies. To me, his invitation to repeat my visit appeared so cordial, and his conversation so engaging, that I was mortified in not being able to prolong my flay. In the evening we returned, as we had come, in his coach and fix to Barcelona.

Having now so good an opportunity to gain information, I made inquiries respect-Vol. III. Y ing ing the population of Catalonia, the taxes imposed on the inhabitants, and the revenue derived to the community from this indus-

trious province.

In the beginning of the present century they reckoned one hundred and one thoufand nine hundred and eighty-fix houses, and only three hundred and ninety-one thousand four hundred and ninety inhabitants; but then, it must be remembered, that the province had been ravaged by civil war. The houses remained, but many of the inhabitants had vanished. In the year 1768, when the bishops gave an account of the population, each in his diocese, they made the subsequent return: men, one hundred and eighty-nine thousand two hundred and fifty-two; women, one hundred and ninetytwo thousand seven hundred and fixtythree; boys, three hundred and thirteen thousand and seventy-nine; girls, three hundred and twenty thousand nine hundred and fixteen; clergy, regular and fecular, fourteen thousand two hundred and thirtyfive. In all, one million and thirty thoufand two hundred and forty-five.

Since that period it is allowed that the population

population is not diminished; yet, in the last returns to government, dated A. D. 1787, and published by authority, we find only eight hundred and one thousand fix hundred and two inhabitants. Of these, fix thousand nine hundred and eighty-three are under vows, and one thousand two hundred and fixty-fix are knights. Now, the difference between these returns being more than two hundred and twenty-eight thoufand in favour of the former, when no cause for fuch a deficiency in the latter can be affigned, evidently marks some error in one or both of them; and, indeed, I have it from the best authority, that these accounts, notwithstanding the most watchful attention on the part of government, always come short, and very short, of the actual population, because it is the interest of every family, parish, and district, to conceal their numbers, in order to avoid the capitation tax.

Catalonia enjoys the privilege of exemption from the alcavala, cientos, and millones; in lieu of which they pay ten per cent. on all rents, whether belonging to in-

dividuals or communities, such as, of houses. lands, tithes, mills, public houses, and public ovens, with ten per cent. on the fupposed gains of merchants, and mechanics. Labourers pay eight and one-third per cent. fuppofing them to work a hundred days in the year, at three reals a day. Artists and manufacturers contribute in the fame proportion annually for a hundred and eighty days. Oxen, cows and calves, horses, mules, sheep and lambs, with pigs, and other animals, if of the larger species, pay three reals each per annum; those of the middling fize, one and an half; and the fmallest, one-third of a real; always supposing the reals to be ardites, of which fourteen are equal to fifteen and two-thirtyfourth reals vellon.

The produce of these taxes amounted, A. D. 1721, as stated by Ustariz, to twelve million eight hundred and seventy thousand seven hundred and seventy-four reals vellon, or one hundred and twenty-eight thousand pounds sterling, and were as follows:

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	Reals Vellon.
The lands at ten per cent. mak-	
ing allowance for unfruitful	
years	5,346,341
Tithes received by private peo-	3.3.
ple of the laity	159,021
Houses, in proportion to the	
rent	700,956
Emoluments of communities -	256,706
Mills	83,978
Quit rents	308,608
	3,099,854
Cattle	249,193
Commerce	175,000
	10,379,657
This falling short of what was	
expected, the fame year was	
added in due proportion -	2,491,117
Total reals vellon -	12,870,774
Beside the above, Catalonia paid	
a composition in lieu of lodg-	
ing, straw, light, wood, and	
utenfils for the troops	4,500,000
Rent of tobacco, falt, the cuf-	
toms, posts, stamps, crusades,	
fubfidy, and excufado -	30,000,000
Y 3	Royal

	48,186,730
-	219,818
-	35,420
-	560,718

Thus the whole amount of the taxes collected in Catalonia was, A. D. 1721, four hundred and eighty - one thousand eight hundred and fixty-seven pounds sterling. But as the revenue of Spain is more than doubled since that period, should we allow the same increase for Catalonia, we must state the revenue arising from this province at little less than a million sterling, which, according to the computed population, is twenty shillings annually for each person; whereas, taking the whole peninsula together, the Spaniards pay no more than ten shillings each per annum.

This contribution is relatively heavy; yet, confidering the rapid circulation of money in this province, and the universal affluence, arising from that rapid circulation, with the peculiar advantages and resources of the Catalans, it is comparatively light; for being freed from the stagnating influence of the alcavala, cientos, and millones, they

enjoy a decided superiority over provinces which have never claimed the same indulgence. Unfettered by these impolitic restraints, and permitted to set their own value on their commodities exposed to sale; their industry is free, whilst that of less-favoured provinces, harassed incessantly by the collectors of the revenue, and the interposition of the magistrate with his assize, is

crippled in all its operations.

In addition to these immunities, as it has been well remarked, the great number of troops constantly quartered in Catalonia not only gives to the farmers and manufacturers a ready market for their commodities, but contributes much to maintain good order in the province. For near two centuries previous to the accession of the present samily, Catalonia was infested with banditti, who, by robbing and plundering passengers, interrupted the safe and easy communication of the cities with each other, and prevented, in a great measure, the interior commerce of the country. But when Philip V. after a severe conflict, had obtained the sceptre; confidering the strong attachment the Catalans discovered for his rival, to prevent infurrections, he stationed

a confiderable detachment of his troops in this doubtful part of his dominions. The immediate confequence of this provision was the restoration of good order; the subfequent effect has been the revival of commerce, by a quick and certain demand for all the productions of their industry. (v. Campomanes Industria Popular, p. 72.)

It is peculiarly fortunate for Catalonia, that the popular prejudice is favourable to commerce; for here artists and manufacturers are as much honoured and respected as in other provinces they are despised and treated with contempt. In consequence of this their trade is brisk; the vessels employed to carry it on are more than one thousand; and government can always depend upon eighteen thousand seamen, who are registered and always ready to obey the summons in cases of emergency.

But that, which contributes most to the wealth and prosperity of Catalonia, is the power which gentlemen of landed property have over their estates, to grant a particular species of lease called Establishment by Emsteutic Contracts. To that circumstance Count Campomanes pays particular attention, when he would account for the

fuperior.

fuperior cultivation and improvement of this industrious province; nor is he singular in his opinion. He not only observes, respecting Catalonia, El usu del derecho emfiteutico mantiene alli al labrador sobre suftierras y produce un sobrante de gentes para los oficios; but to form the contrast he remarks; that Andalusia, although more fertile than either Catalonia or Galicia, yet is destitute of industry, because the land being occupied by few proprietors, the bulk of the people are day labourers, who only find occasional employment. Hence, clothed in rags and wretchedness, they crowd into cities, where they obtain a precarious livelihood through the bounty of rich ecclefiaftics. (Camp. E. P. Ap. 3. p. cxlix. and I. P. 73.)

Not merely in Andalusia, but in other provinces, the great estates being strictly entailed, and administered on the proprietor's account, little land is to be rented by the farmer, less can be purchased by the monied man, and, for want of floating property, industry is lest to languish. In Catalonia it is totally the reverse of this.

By the *emfiteutic contract*, the great proprietor, inheriting more land than he can cultivate

quantity for a term of years, either absolute or conditional, either for lives, or in perpetuity, always reserving a quit-rent, like our copyholds, with a relief on every succession, a fine on the alienation of the land, and other seignioral rights dependant on the custom of the district, such as tithes, mills, public-houses, the obligation to plough his land, to surnish him with teams, and to pay hearth-money, with other contributions, by way of commutation for ancient stipulated services.

One species of grant for uncultivated land, to be planted with vines, admitted formerly of much dispute. The tenant holding his land as long as the first planted vines should continue to bear fruit; in order to prolong this term, he was accustomed to train layers from the original stocks, and, by metaphysical distinctions between identity and diversity, to plead, that the first planted vines were not exhausted; claiming thus the inheritance in perpetuity. After various litigations and inconsistent decisions of the judges, it was finally determined, that this species of grant should convey a right

to the possession for fifty years, unless the plantation itself should previously fail.

The lord of this allodial property may appoint any one as judge, with the affistance of an attorney, to hold court for him, provided he has previously obtained permission from the provincial court, or, supposing the district to be a barony, from the baron or his ordinary judge. Having constituted the tribunal, the lord, even whilst a cause is pending, may at pleasure remove the judge, and name another in his place, and the tenant has, at any period of the trial, a right to his challenge, without assigning reasons, other than his own suspicions. Each party may equally reject three advocates appointed for assessments.

The referved rent is paid commonly in money; but often the agreement is for oil, wine, corn, or poultry.

Should the property thus granted in fee pass into mortmain, the lord of the soil may insist on its being sold, or he may increase the reserved rent in proportion to the value of the usual sine.

The tenant, whenever fummoned, must produce in court his title, which he is bound to trace upward, till it arrives ultimately timately at the royal grant; and when his term expires, on quitting, he must be paid for his improvements, before he can be legally ejected: but at the same time he may be compelled to indemnify his lord for all damages sustained by his neglect.

Should the tenant be defirous of quitting before the expiration of his term, he is at liberty to do it; but in that case he is precluded from all claims for his improvements.

The tenure in Catalonia is evidently feodal. All property in land is traced up to the king, and is held by knights service from the crown, subject to relief, to fines, and to escheat. Under the royal grant, the great lords claim, not merely tithes of all lands not being freehold, with quit rents and fines, mills, and public houses, as we have remarked above, but the right of appointing magistrates and receiving tolls on the passage of cattle over their estates.

To the power retained by them of making emfiteutic contracts, has with reafon been attributed the cultivation of such waste lands as are most susceptible of tillage, and the consequent increase of population. Industry has been promoted, new families have been called into existence, and

many, refcued from poverty and wretchedness, are now maintained in comfortable affluence. In the year 1738, one James Vilaplana purchased at a public auction, for two hundred livres Catalan, a tract of waste land, on which, in 1778, were found twenty families established, although he had reserved one third of this possession for himself; and the whole being planted with vines, for which the foil was best adapted, what had been originally purchased for two hundred livres became, in the space of forty years, worth many thousands.

Yet advantageous as this kind of establishment has been, both to individuals and to the community at large, fome great proprietors are so inattentive, both to the general good and to their private benefit, that they leave their lands uncultivated. Even in Catalonia, according to the government returns, more than three hundred villages

have been deserted.

On my return to Barcelona, recommended by the minister to the protection of the governor, feeling myself strong, I ventured to inquire more freely (than I had before thought prudent) into the conduct of the inquisition. In my former visit I had cul-

cultivated friendship with the inquisitors, yet I had always approached them with a degree of reverential awe; but now I queftioned them without referve or fear. point at which I laboured was to converse with some who were confined, and understanding that Mr. Howard had visited their prisons, I pleaded for the same indulgence. To this request they answered, that I was certainly mistaken; for that no human being, unless in custody, or himself an officer of the inquisition, could be admitted to fee the interior of their prisons; but they affured me in the most folemn manner, that the prisoners were not merely treated with humanity, but enjoyed every possible indulgence. The apartments, in which they are confined are spacious, airy, clean, and commodious. They are permitted to fend for their own bed, with books, pen, ink, and paper. They have their own provifions, and if they are poor, they are well fed and comfortably lodged at the expence of the inquifitors. The alcalde waits upon them four times a day to receive their orders, and once a fortnight one of the inquifitors vifits every apartment to fee that all is in good condition, and to inquire if the prisoners are treated with humanity.

To provide funds for the expence of this tribunal, they confiscate the goods of all, who are condemned.

Neither their superior officers, nor yet their familiars, or lowest servants and messengers, are amenable before the civil courts, nor accountable for their crimes and offences to any but their own tribunal.

My friends, the inquisitors of Barcelona, felt exceedingly fore about the trial of the beggar at Madrid; and affured me, that the only reason why the king required the inquisition to take cognizance of fo contemptible a wretch was out of tenderness to the many ladies of high fashion, whose names must have appeared, had the profecution been conducted in the civil courts. They likewise gave me to understand, that as long as the priesthood should be debarred from marriage, and confessors continue liable to abuse the confidence reposed in them, the secrecy, the prudence, and, when needful, the severity of the inquisition, would be the only effectual restraint against licentiousness and the universal depravation of their morals.

When a prisoner is discharged, the inquisitors

quisitors exact an oath of secrecy, and should this be violated; the offender would have reason to repent his rashness; for, taken from his family in the middle of the night, he might never be released again.

The dread of this imposes filence on all who have been once confined. The Dutch conful now at Barcelona, through the long period of five and thirty years, has never been prevailed upon to give any account of his confinement, and appears to be much agitated whenever urged to relate in what manner he was treated. His fellow fufferer, M. Falconet, then a boy, turned grey during the short space of his confinement, and to the day of his death, although retired to Montpellier, observed the most tenacious filence on the subject. His fole offence had been destroying a picture of the bleffed Virgin; and his friend, the Dutch conful, being prefent on that occasion, and not having turned accuser, was considered as a partner in his guilt.

For my own part, I am inclined to think, that in proportion as light has been diffused in Europe, even inquisitors have learnt humanity. But facts speaking so strongly for themselves, we must continue to lament that darkness should so far prevail as to leave the least vestige of inquisitorial power; for, wherever it exists, it must be liable to abuse, and clemency must be merely accidental.

During the whole week immediately preceding my final departure from the city, all the world was occupied with festivity on account of the beatification of two saints lately received into the calendar. Philip IV. and Philip V. had, for this purpose, exerted all their influence, promoting contributions to defray the expence of the process at the court of Rome, and urging the most powerful arguments with his holiness the Pope; but all their arguments were vain, till the general voice, and the more powerful interest of Charles III. prevailed:

The citizens, on this occasion, gave full scope to the expressions of their joy. In the convent of S. Francisco de Paula, to which order the new saints belong, they had service every evening, accompanied with a strong band of music, both vocal and instrumental. These reverend fathers, in the ardour of their zeal, had cut down Vol. III.

their orange grove to make room for a model of Monjuich. Not far from thence, one of the faints, S. Bono, was represented as a foldier, with a company of horse, climbing a steep ascent, and ready to tumble over a wall into a well, whilft San Francisco was attending to deliver him. After this miraculous escape, the soldier became a faint, and embraced the order of his patron. The only miracles ascribed to him, whilst living, were his detecting a boy, who was stealing artichokes from the garden of his convent, and a friar, who was tempted by some fish to incur the guilt of facrilege. But now, after the lapfe of two hundred and thirty years, he is become the patron of women in child-birth, and his relics are faid to cure all diseases.

The streets in the vicinity of the convent, and nearly over one quarter of the city, were illuminated every night; the houses were covered with white linen; and the balconies, adorned with looking-glass, reslected light from innumerable tapers. The shops, fitted up like sacred grottos, had each its altar, and many elegant chapels were constructed in the middle of the streets.

All the narrow lanes, dreffed with green branches so as to resemble groves, were hung with sessions of slowers, intermixed with coloured lamps. Many of the principal inhabitants had music in their houses; and every evening, till near midnight, thousands were crowding through the streets to hear and see the united efforts of all ranks to honour the memory of their countrymen, now received among the saints.

During my refidence at Barcelona, I had the happiness of cultivating an acquaintance with two very ingenious phyficians, Don Francisco Sanponts, and Don Francisco Salva. I found them well acquainted with the writings of the best nofologists, and expert in the improvements of modern chemistry. With one of their experiments, then new to me, I was peculiarly delighted. I had feen Dr. Priestley produce dephlogisticated air from manganese in great abundance, and more sparingly from vegetables exposed to the meridian fun; but these gentlemen, by a fimilar process, obtained, in the space of a few hours, from a finall portion of American aloe (agave Americana) half a pint of vital, or dephlogisticated air; and at the Z 2 fame

fame time affured me, that from no vegetable fubstance had they ever been able to procure an equal quantity in proportion to the furface exposed to the folar rays. Having extracted and transferred this to a phial, in it they immerged a twisted iron wire, with a finall portion of amadou at the end, which having kindled into flame they had previously extinguished. Instantly this fmoaking tinder blazed, and the iron burned, like nitre, with a most vivid flame, casting off little stars of light, and leaving at last a number of small shot, perfectly rotund, which were nothing but the fcoria of the iron. A fimilar portion of the leaf, when the day was cloudy, produced fixed air, which speedily extinguished flame; but the quantity obtained in the space of a few hours was not considerable. For these beautiful experiments they are indebted to Dr. Ingen-Houfz.

Of threescore physicians settled at Barcelona, these two are the most distinguished, and have the most extensive practice. One of them favoured me with a sight of his list. He had visited more than forty patients in the morning, and he was to see

as many before he went to bed. Among these were many merchants, manufacturers, and officers; yet he did not expect to receive a hundred reals, that is twenty shillings, for the whole practice of the day.

Although not rich, they had occasion, a few years fince, to shew a high and independent spirit, for which they deserve the highest commendation. When General O'Neille was governor, (A. D. 1784,) the putrid fever, already mentioned more than once, raged in Catalonia, as in Arragon and other provinces of Spain. The physicians, fummoned by the governor, like those of Carthagena, were required to engage, that from thenceforth they would prescribe no medicine befide the famous opiate recommended by Dr. Masdevall. Not satisfied with this, the governor had prepared a certificate, fimilar to the one produced at Carthagena, for them to fign. The doctors Salva and Sanponts, in the name of all the rest, remonstrated; but could obtain no other answer, than that the king would have it so, and that the prison doors stood open to receive them. Our chieftains, however, not to be intimidated, continuing Z 3

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firm to their resolution, and being well supported by their corps, at last came off triumphant, and were permitted to prescribe whatever medicines they thought proper. The general, although as a soldier he had been accustomed to obedience, yet being gentle and discreet, he chose rather to report the matter to the court, than at once to carry his threats into execution. Here the matter rested.

Dr. Masdevall, in his publication, claims the invention of this opiate, and represents it not merely as a specific in putrid fevers, but as a panacea, infallible in all kinds of fever, and a fovereign remedy in every difcase incident to the human frame. But as the physicians of Barcelona were by no means satisfied of this, they resisted his pretenfions; and as some of them had noticed this famous opiate in the Journal de Medicine, so far back as A. D. 1769, they denied him the merit of invention. reality, this formula was known and defcribed under the appellation of Boucher's opiate, and the nature of the decomposition taking place on the admixture of the various various articles was well described in the Journal of 1778.

The mixture of tartar emetic with the Peruvian bark has been a favourite medicine in France. In the year 1779, the Royal Medical Society at Paris, in their Memoirs, p. 249, recommended highly a drachm of the former, with an ounce of the latter, to be used in putrid fevers; and at Barcelona they were already in the habit of combining tartar emetic, cremor tartari, and Peruvian bark, before ever they received the royal mandate.

In conversing with these physicians, I was struck with the number of lunatics under consinement in the several provinces of Spain; and when I returned to England, I compared their account of Catalonia with the government returns. By these it appears, that in Arragon the number is two hundred and forty-four; in Catalonia, one hundred and fourteen; in Valencia, one hundred and twenty-one; in Andulusia, ninety-nine; in Granada, forty-one; in Toledo, forty-two; in the province of Leon, two; and in Avila, one. In the other interior provinces no mention is made of any.

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Thus stands the fact; but as for the foundation of this difference between the maritime and the inland provinces in this respect, neither they nor any one, with whom I have conversed on the subject, could suggest any thing worthy of remark. I have, therefore, been contented simply to state the fact, and leave it as I found it.

Before I quitted Catalonia, I wished to have visited some of the numerous mines among the mountains; but could never find a convenient opportunity. I was, however, favoured with a copy of the schedule, containing a minute account of all the mines discovered in the province, drawn up for the use of government by the servants of the crown.

From this it appears, that although minerals have yielded hitherto little to the revenue, and not much to individuals, they have numerous mines of antimony, iron, lead, copper, filver, with one of gold, and many of coal. Some of these are too remote from water carriage, others cannot be worked to profit for want of timber. But that which is most remarkable is, that two private adventurers, Don Joseph Solanell,

of Ripoll, and one Canadell, a merchant of Berga, having obtained a grant from the crown, undertook to work fourteen coal mines in various and distant parishes; when, to open any one effectually, would require not merely skilful miners, but a weight of capital, such as few individuals in Spain can be supposed to command. Coals are chiefly found in the district of Villa-franca; silver and copper abound in the valle de Aràn; but coal, silver, and gold, have all been discovered in the vicinity of Lerida.

It is certainly for the happiness of this principality, that the mines are not made more productive. In mining countries, the gains are exceedingly uncertain; a gambling spirit is encouraged; agriculture is neglected; and poverty prevails. If the mineral is raised on the adventurers account; unless they discover uncommon treasures, they will be inevitably ruined. If the working miners become sub-adventurers; they either gain too little, and are wretched; or they get too much, and soon contract strong habits of indolence, prodigality, and vice.

Of this truth we have a melancholy proof

proof at home. Let any one pass through the county, which most abounds with mines, and in the mining parishes he will be struck, every moment, with the fight of poverty and wretchedness. Seeing multitudes lost to the community, as to all useful purposes, and abandoned to misery, he will inquire, if no provision has been made to relieve the distresses of the poor? The refult of his inquiries will be fimply this; that in circumstances similar to theirs, no laws, either human or divine, restrain the uncultivated mind from vice; and that the most liberal contributions of the rich only tend to increase the wants and the diftreffes of the poor. He will hear, to his aftonishment, that in some places the whole landed property is absorbed and lost in the vain attempt of relieving poverty; and that they, among the poor, whose gains have been the greatest, are universally the most diffressed. In the districts where mines have not been ever heard of, and where all are engaged in the cultivation of the foil, he will admire the prevalence of industry, fobriety, and virtue; he will be charmed with fimplicity of manners; he will find fewer fewer objects of distress; and, upon inquiry he will learn, that little is required from the hand of charity to relieve the poor.

Some individuals have gained wealth by mines, but not the community, because the blanks are more in number than the prizes. However, therefore, the hope of gain may influence the individual to fuch bold and hazardous adventures; a prudent fovereign will rather encourage his fubjects to prefer the more flow and certain, the moderate, yet regular and healthful gains of agriculture. The spirit of mining should be the last to meet encouragement; yet in Spain it appears to be among the first. If agriculture were carried to the utmost possible extent; if the lands now desolate and waste were reduced to tillage; if all the vallies, susceptible of that improvement, were supplied with water; if the projected canals and the high roads were finished; if neither agriculture, manufactures, nor commerce could find employment for their people and their capitals; it might then, and not till then, become a question, whether the furplus of their population should find vent in emigrations, or whether

ther they should look for antimony, cobalt, bismuth, mercury, lead, copper, silver, and gold, at home.

Before I quitted Barcelona I had a curious paper put into my hands, which made me wish for the one corresponding to it. This was a schedule, with inquiries directed, A. D. 1575, to all the prelates and corregidors, by Philip II; but I could not learn what answers had been returned, or what steps taken in consequence of these inquiries.

Among the fifty-seven heads, on which the corregidors were to make report, the major part related to geography, and the local situation of each village; to natural and civil history; to remarkable characters, both ancient and modern; to heraldry; to the municipal government, and state of defence; to agriculture, and the productions of each district; to mineralogy, with a special reference to gold, silver, iron, copper, lead, mercury, or other metals, but without any mention of coal, of which they appear not to have had the least idea.

Of the remaining queries the subsequent are the most remarkable:

and families? Were they formerly more numerous? If so, To what cause must be attributed the subsequent diminution?

2d, Are all the inhabitants employed in useful labour? How many are knights, and what immunities do these enjoy?

3d, What entailed estates are there?

4th, Are the people prosperous and flourishing? What manufactures do they carry on? In what do they excel?

5th, What waste lands and commons have they? What is the value of these to the community? What do they collect for the passage of goods and of cattle through their territories?

6th, What privileges and immunities do they enjoy, and what special customs do they plead? For what reasons were these granted?

7th, Supposing the town to be under the jurisdiction of a lord, what emoluments, privileges, or pre-eminence, does he, or any other person, derive from it?

8th, What is the value of the tithes, and to whom do they belong?

9th, In cities and collegiate churches, what is the value of the various benefices?

ric, and of all the livings in the diocese?

nuns, and for beatas, are in your district? What are the numbers under vows? Who were the founders of these religious houses? and, What is the value of their rents?

12th, What hospitals have you, and what is their revenue?

13th, How many public houses are in the district? To whom do they belong, and what are they worth?

14th, What depopulated villages are in your district, and what was the cause of their decay?

15th, Does your town claim a vote in cortes? if not, How, and by what city, is it represented there?

16th, What festivals are observed, befide those appointed by the church?

your churches, and what miracles have been performed by them?

It is evident from the general scope of these

these inquiries, that the design of Philip II. was to gain a perfect knowledge of his kingdom, with a view to political economy; but in order to dazzle the eyes of his fubjects, he intermixed queries which had no reference to that subject.

Were we now in possession of the anfwers to these most interesting queries, we should be able to judge how far the country has been depopulated in two centuries, fince the change of government, and fince the discovery of America; but for want of these authentic documents, we can only know in general that the nation has fuffered much, without being able to state precifely the loss which has been sustained by these unfortunate events.

Should either the prefent, or any fucceeding monarch, gradually extend the bounds of freedom, agreeable to the principles now prevalent in Europe; should he shake off the colonies, and contract the limits of his unwieldy empire; should he banish his inquifitors, and invite foreigners of all defcriptions to fettle in his country; and should he bend his whole attention to cultivate the arts of peace; this most fertile kingdom

kingdom would speedily recover, without dangerous convulsions, from her wounds; would regain her former population, strength, and consequence in Europe; and, establishing her public credit on a firm foundation, would surpass, by a rapid pro-

gress, all her ancient splendor.

When the time arrived for my departure and return to England, I made an agreeable party with the conful of Barcelona, to take the rout of Switzerland, than which, for a naturalist, no country can be more interesting. In the way I paid particular attention to the strata, and to every appearance of extraneous fossils. Of this tour, should health permit, I may hereafter give a particular account, and endeavour to establish sacts, such as will convince the most incredulous, that the Mosaic account of the universal deluge is strictly and literally true.

From Barcelona to Bellegarde we returned by the same way which I have described at my entrance into Spain. Arriving here at the summit of the Pyrenees, I cast one longing lingering look behind, and quitted with regret a country, where, independent of multiplied civilities and personal

attentions, for which I felt myself deeply indebted to my friends, I had been led fo often to admire the boundless generosity of the inhabitants. To express all that I feel, on the recollection of their goodness, would appear like adulation; but I may venture at least to say, that simplicity, sincerity, generosity, a high sense of dignity, and strong principles of honour, are the most prominent and striking features of the Spanish character. In a word, whatever in them I have been accustomed to admire, I attribute to themselves, and to their intrinsic excellence; whatever I have blamed, must be ascribed to the accidental corruptions of their government.

Confidering the similarity of character between the two nations, the Spanish and the English, with the strong predilection of the former in favour of the latter, the peculiar wants of each, and their mutual ability to supply those wants, I cannot but lament sincerely that a better understanding should not subsist between them, leading in the first instance, if not to a new family compact, at least to a family connection, and issuing sinally in a commercial

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intercourse equally beneficial to both nations.

These are the earnest wishes of the Spaniards, as appears by their well known adage:

> Con todo el mundo guerra Y paz con Ynglaterra.

"Peace with England, and war with all the world." From one end of the kingdom to the other this fentiment prevails; and fuch a strong desire for the union of their most amiable prince the infant don Antonio, with one of our princesses, that their wishes constantly kindle into hope. During my abode in Spain, when at any time, as often happened, a rumour spread that this event would speedily take place, being readily and universally believed, every eye was seen to sparkle with the joyful expectation.

In the present circumstances of the royal families, both in Spain and Portugal, such a connection would promise peculiar advantages to the princess, who should visit Spain, because it is more than possible she might give a sovereign to them both, under whose

sceptre those kingdoms would for ever be united.

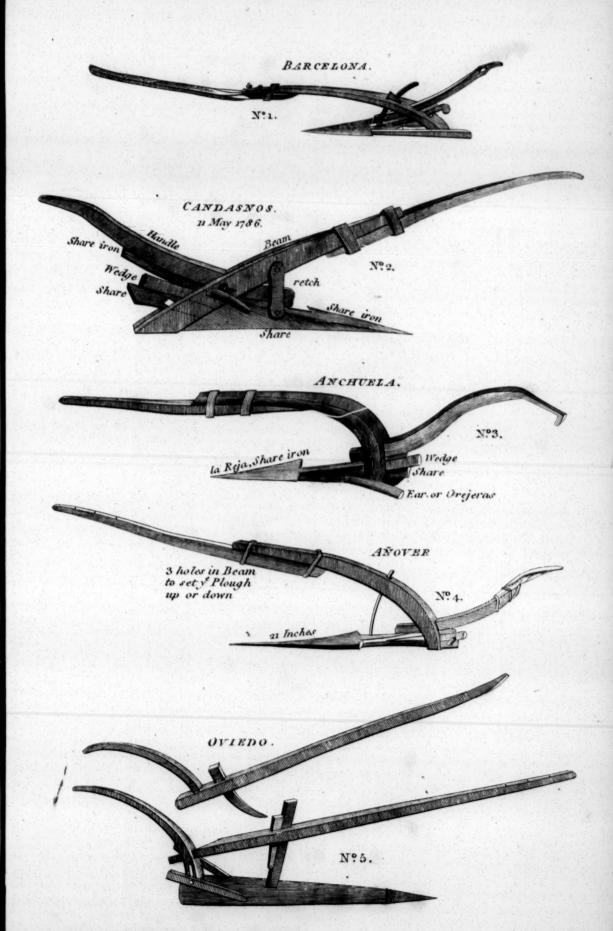
From fuch a connection no inconveniencies could arise to England, because catholics are by law excluded from our throne, and the whole system of their religion, with aftonishing rapidity, is mouldering away. The papal authority is no longer to be feared. The French never owned allegiance to the fee of Rome, and at the present moment, superstition in that vast empire lies proftrate in the dust, without the most distant hope of rising into power. Germany, under the dominion of Joseph and of Leopold, is become in a manner protestant, whilst catholics themselves, protesting, have made a new religious æra in our island.

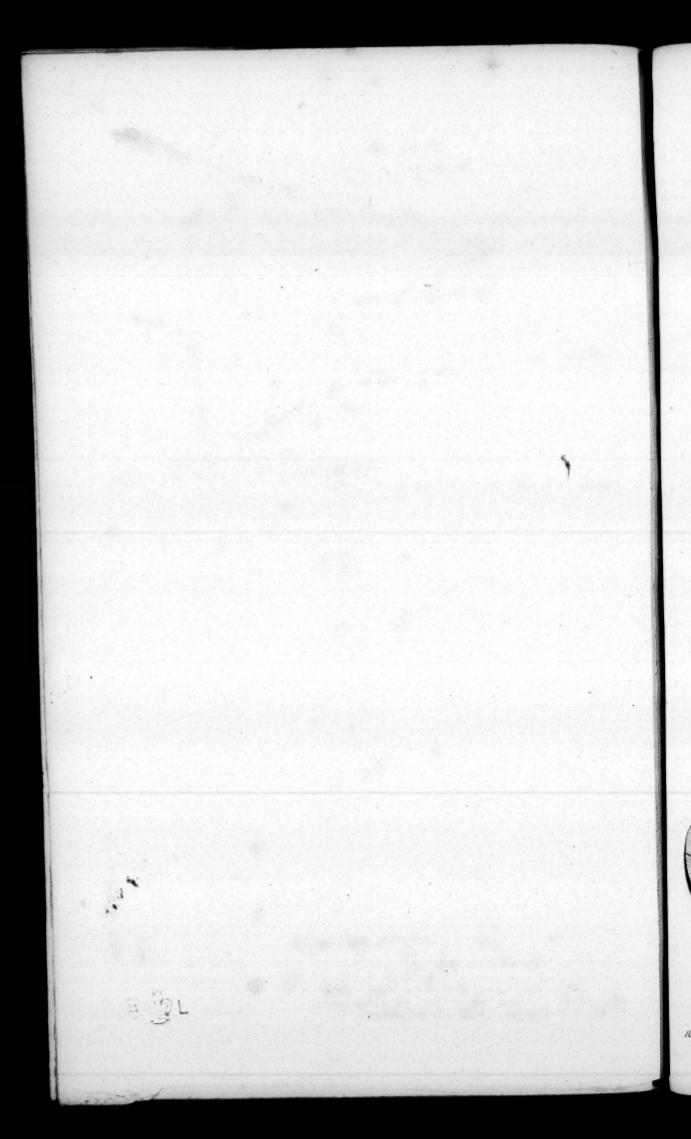
Knowledge in the present day is not, as formerly, confined within the walls of Rome. Science universally prevails, and the sovereigns of Europe will never more consult the college of cardinals to settle their disputes. The times are changed, and, without pretending to more than common sagacity, we may venture to affirm, that the papal authority has received its

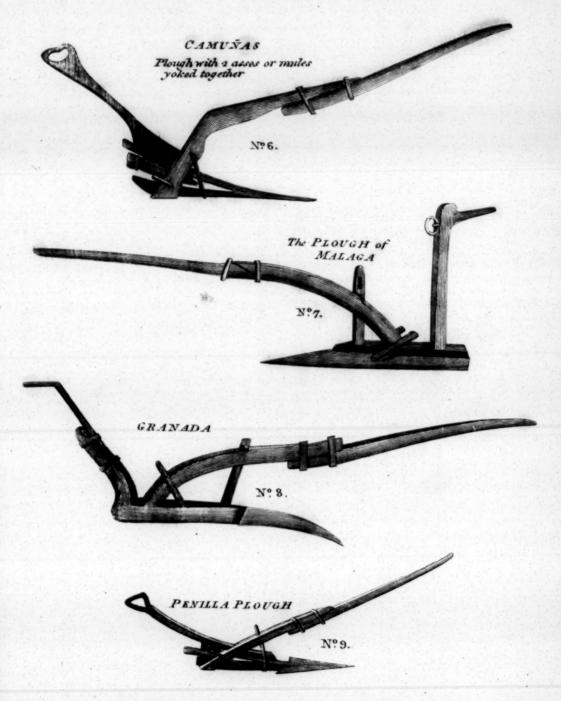
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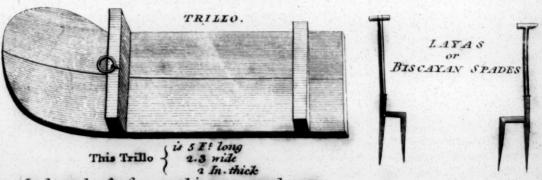
mortal wound, and to predict, that super-stition will never more revive. In these circumstances, the national religion has little to fear by accepting the offers, should such be made by any catholic court, of intermarriage with our princesses, whose character, it may be said without suspicion of adulation, throughout Europe stands so high as to attract the attention of every crowned samily, and whose liberal education and habits must make them eminently prove a blessing to the country where they go, tending to promote universal peace and a free commercial intercourse in Europe.

APPENDIX.



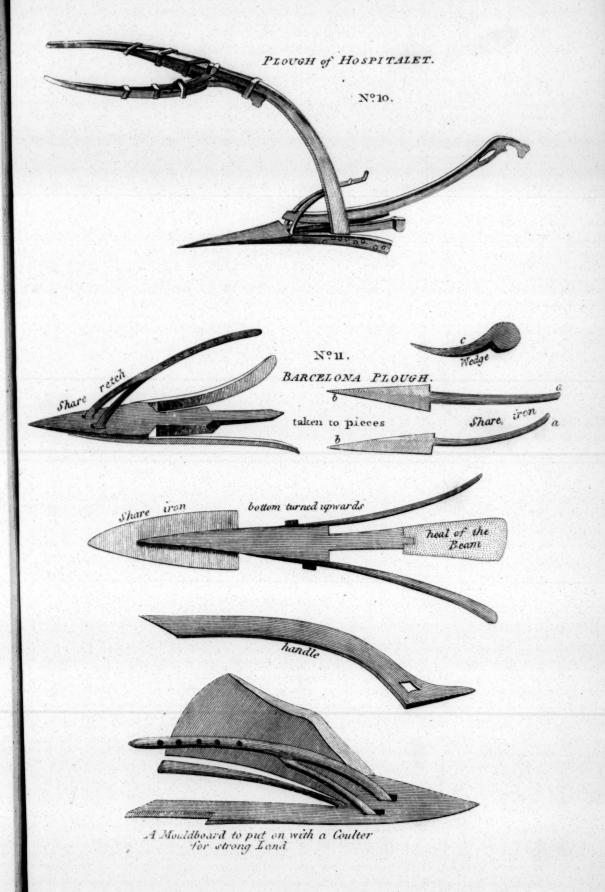


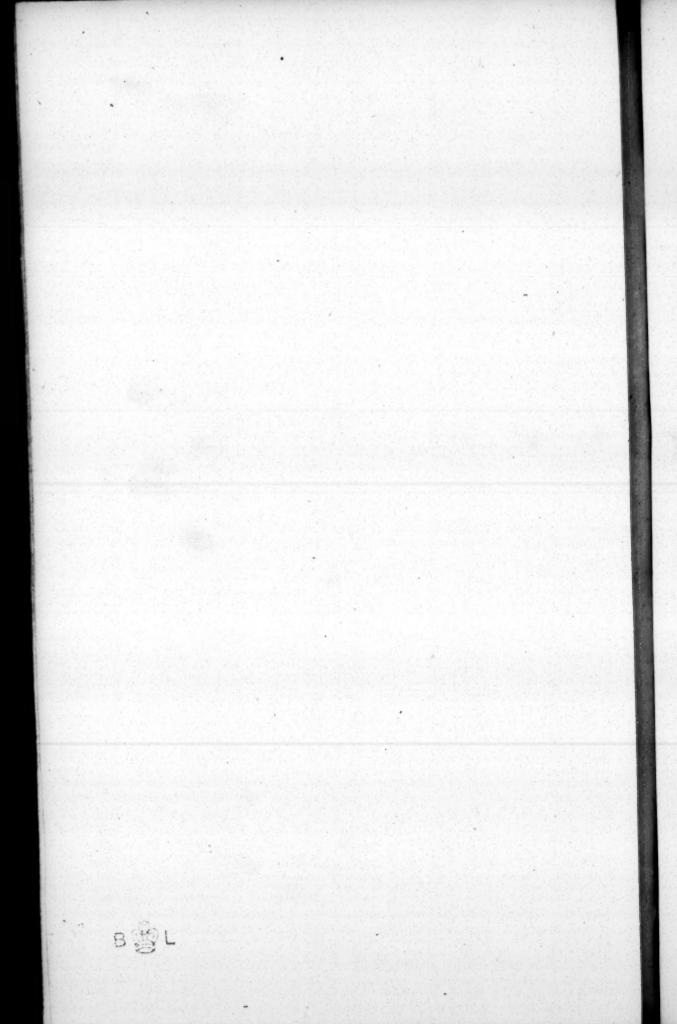




In the under Surface are driven 200 rough gun flints. This the horse draws over the Floor on which y Corn is spread and the driver rides upon it.







APPENDIX.

CASTILLIAN MONEY.

			•	Penny.
1 Marav	edis is	equal to	_	9
2 ditto	_	ditto	— .	9
3 ditto	_	ditto	_	27
4 ditto	_	ditto a Quarto,	or	32
5 ditto	_	ditto	_	45
6 ditto	_	ditto		27
7 ditto	_	ditto		63
8 ditto		ditto two Quai	rtos, or	9
9 ditto	_	ditto		91
10 ditto	_	ditto	_	45
11 ditto		ditto		99
12 ditto	_	ditto three Qu	artos	37
13 ditto	_	ditto		117
14 ditto		ditto		63
• -		A 2 3	15 Ma	ravedis

- r P E N D I X.

			s.	d.	
edis is	equal to	-		1 -	7 8
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-	ditto	-		I	2 5
-	ditto eigl	ht Qua	rtos	2	<u>1</u>
-	ditto 8 ½	Quart	cos	2	2 5
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-	ditto	-	5	10	16
-	ditto	2	18	7	1
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7 ditto	-	ditto	-	I 4 47	
8 ditto	-	ditto	-	1 7 1	
9 ditto	-	ditto	_	I 9 3 3	
10 ditto,	an Escu	ido,	-	I II 58	
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rent	Dollar, ed	qual to	_	0	3	0	
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18 ditto		ditto	-	0	3	732	
19 ditto	-	ditto	_	0	3	964	
20 mak	e a Peso	Duro, or h	ard				
Doll	ar, ditto		_	0	3	1152	
40 mak	e an Escu	do de Oro	-	0	7	11 5	
60 mak	e a curren	t Pistole	-	0	11	117	
75 mak	e a gold I	Piftole	_	0	15	0	
100 ditte	-	ditto	_	0	19	111	
320 mak	e the Un	cia de Oro		3	3	9	
,000 ditte	· —	ditto		9	19	2 5	

Ecclesiastical revenues being reckoned by Ducats, I have subjoined the following table:

			s.	d.
1 Ducat is	equal to	-	2	247
2 ditto	_		4	4 94
3 ditto	-	_	6	7-11
4 ditto		-	8	900
5 ditto	-	-	10	11-07
	A	a 4	6	Ducats

APPENDIX.

			£.		d.
6 Ducats are	equal to	-	0	13	
7 ditto	-	-	0	15	
8 ditto	-	-	0	17	
9 ditto	-	-		19	
10 ditto	-	-	I	, 1	11-86
11 ditto	-	=======================================	I	4	2_5
12 ditto	-	-	1	6	
13 ditto	_	-	I		
14 ditto	-	-			9-18
15 ditto	_	-	1	12	11-65
16 ditto	-	-	I		1 1 1 2
17 ditto	-	-	1	17	4-31
18 ditto	-	-	I	19	6 78
19 ditto		_	2	I	8 1 2 5
20 ditto	_	=	2	3	11-44
30 ditto	_	_	3	5	11-2
50 ditto	-	-	5	9	10-46
100 ditto	_	_	10	19	8 2 3
500 ditto	_	-	54	18	Service Village
600 ditto	= =	=		18	
,000 ditto	-	_	109	17	
,000 ditto	_	-	219	14	
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,000 ditto	_	_	659	3	
3,000 ditto	-		878		1 }
					10,000

APPENDIX.

		£.	s.	d.
10,000 Ducats	are equal to	1,098	12	77
16,000 ditto	_	1,757	16	3
20,000 ditto	_	2,197	5	31
30,000 ditto	_	3,295	17	115
40,000 ditto	_	4,394	10	71
60,000 ditto	_	6,591	15	111
80,000 ditto	_	8,789	I	3
100,000 ditto	_	10,986	6	63
150,000 ditto	_	16,479	9	10
1,000,000 ditto	<u> </u>	109,863	5	71
2,000,000 ditto	_	219,726	11	3
4,000,000 ditto	_	439,453	2	6
8,000,000 ditto	_	878,906	5	•
			110	

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